Holden

OWNER'S HANDBOOK

TF SERIES

Owner's Name .....

Address .....

Town .....

State .....Postcode .....

Model Name .....

Reg. No. .....Eng. No. .....

Vehicle Identification No. (V.I.N.) .....

Date of Purchase .....Odometer Reading.....

Vehicle Identification Certificate

Selling
Dealer's
Stamp & Signature.....

Change of address/ownership

Holden's Motor Company requests that owners who change their address (or name) or subsequent owners who purchase this vehicle, complete and return by mail one of the forms on pages 8-34 or 8-36.

This notification is important even after the expiration of the original warranty in order that Holden's Motor Company will be able to contact you should the need arise.

Part No. 92036023
December 1988 (Print 2)

We thank you for choosing Holden and want to assure you of our continuing interest in your motoring pleasure and satisfaction.

Quick index

- ACCIDENT PROCEDURES Page 4-1
- WARRANTY Page 5-1
  familiarise yourself with the conditions
- CHANGING A WHEEL Page 4-4
- OTHER EMERGENCIES Page 4-0
- FUEL Inside Rear Cover
- LIST OF DEALERS ACROSS AUSTRALIA Page 5-7
- CUSTOMER ASSISTANCE Page 5-6

This handbook applies to all 1988/89 TF series Rodeos and therefore you may find reference to some equipment not installed in your vehicle.

All information, illustrations and specifications in this handbook are based on the latest production information available at the time of printing. Holden's Motor Company reserves the right to make changes at any time without notice and without incurring any obligation.

CONTENTS

The first page of each chapter contains a "chapter index"

Chapter 1 .... **INSTRUMENT PANEL** ..... page 1-0

The first page of this chapter illustrates the instrument panel and identifies the gauges, warning lights and controls. Page reference numbers are listed next to each item.

Chapter 2 .... **KNOW YOUR VEHICLE** ..... page 2-0

This section covers the other features of your vehicle, not appearing on the instrument panel. Features covered include locks, seat adjustment, seat belts, mirrors, windows, antenna and the interior light.

Chapter 3 .... **STARTING, DRIVING & TOWING** ..... page 3-0

Please read chapters 1 and 2 to familiarise yourself with your vehicle before proceeding to this section. This explains how to start your engine and the use of automatic and manual transmissions. There are also some precautions and fuel consumption notes as well as information when loading your vehicle or towing a trailer.

Chapter 4 .... **ACCIDENTS & EMERGENCIES** ..... page 4-0

The first two pages of this chapter show what to do at the scene of an accident, including giving medical assistance. Following, are some emergency procedures, including wheel changing, starting when the battery is flat, engine overheating, draining water separator (diesel) and bleeding the fuel system (diesel).

CONTENTS

Chapter 5.... **WARRANTY** ..... page 5-0

This sets out the terms of your warranty, explains what to do if you need Customer Assistance and lists the Holden Dealers across Australia.

Chapter 6.... **WEEKLY MAINTENANCE** ..... page 6-0

As well as taking your vehicle in for a service, there are a few simple checks that the owner must make. These are clearly shown and illustrated. They include checking the oil, water, automatic transmission fluid, brake and clutch fluid levels. It also shows how to top up the washer fluid and check your tyres.

The end of the chapter shows how to replace your vehicle's light bulbs should the need arise.

Also included are instructions about cleaning your vehicle.

Chapter 7.... **SPECIFICATIONS & EMISSIONS** ..... page 7-0

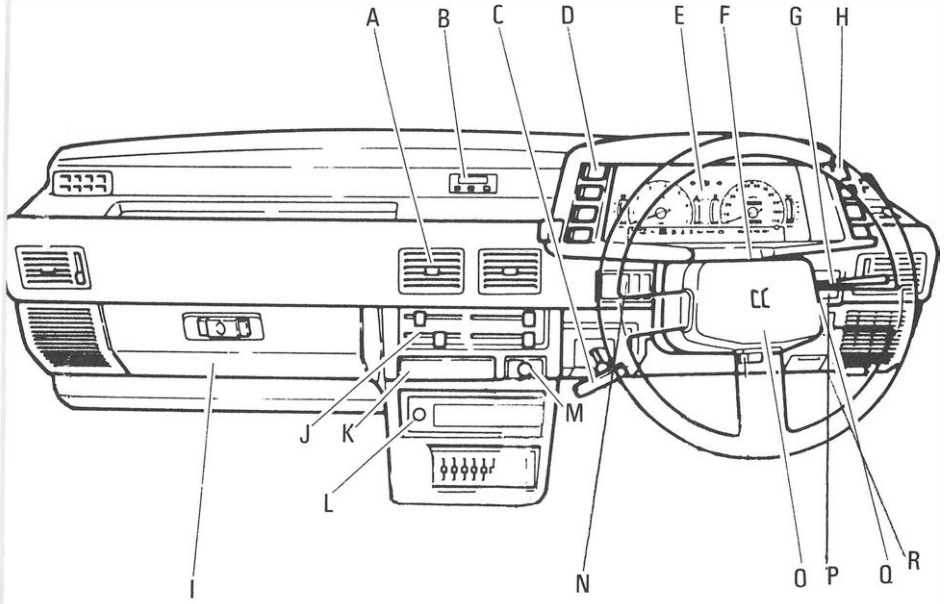
This lists specifications, capacities and general replacement parts, including oil, coolant, and fluids. Also included is information relating to the emission control features fitted to your vehicle.

Chapter 8.... **SERVICE/MAINTENANCE SCHEDULE** ..... page 8-0

This shows when your vehicle requires servicing and what is done at each service. Also included are the coupons that are used when you take your vehicle to a Holden Dealer to be serviced.

INDEX ..... rear pages

REFUELLING ..... inside rear cover



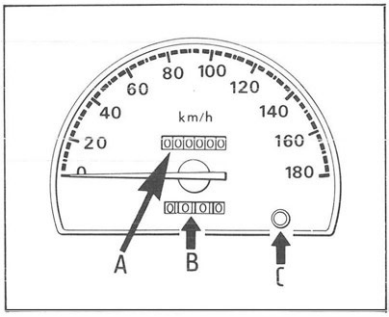
		Page
A	Air outlets	1-9
B	Clock	1-8
C	Park brake lever	1-8
D	Wiper and washer switches	1-5
E	Instrument panel	1-1
F	Hazard warning switch	1-8
G	Combination lever, controlling high/low beam and turn signals	1-6
H	Light Switches	1-6
I	Glovebox	1-15
J	Heater controls	1-9
K	Ash tray	1-15
L	Radio / radio cassette	1-11
M	Cigarette lighter	1-15
N	Diesel idling control knob	1-7
O	Horn	1-8
P	Instrument panel brightness	1-2
Q	Ignition/starter switch	1-7
R	Bonnet release lever	1-16

Speedometer

The speedometer gauge indicates vehicle speed in kilometres per hour.

The odometer (A) records kilometres travelled since the vehicle was built.

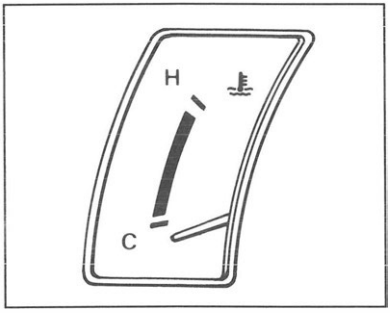
The tripmeter (B) records kilometres travelled on a particular trip. Push the tripmeter knob (C) to reset the reading to zero.



Engine coolant gauge

The temperature gauge indicates the engine coolant temperature, when the ignition is switched to ON.

If the needle moves to the extreme top of the gauge, an overheat condition is indicated, refer page 4-7.



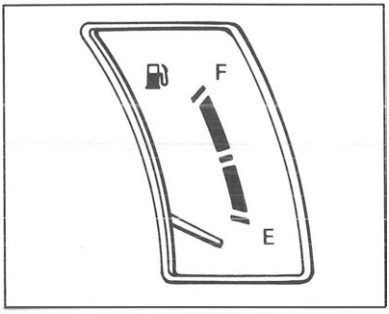
Fuel gauge

The fuel gauge indicates the level of fuel within the fuel tank. "F" represents full and "E" represents empty.

The maximum capacity of the fuel tank is :

53 litres -S.W.B. single cab
- crew cab
75 litres - space cab
- L.W.B. single cab

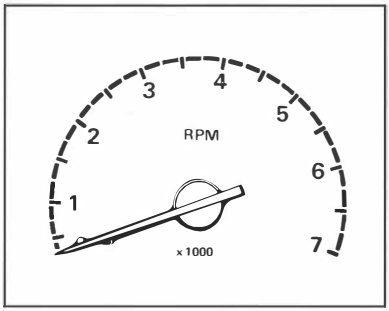
Refer to information on the inside of the rear cover of this Handbook when refuelling.



Tachometer (LS & diesel)

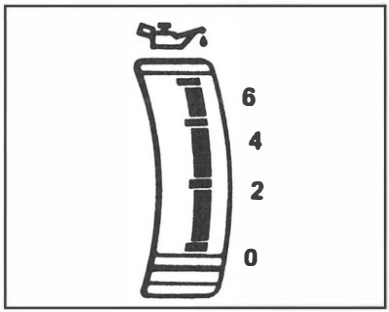
The tachometer records engine speed in revolutions per minute (r.p.m.).

Continued or sustained operation in the RED zone could cause serious engine damage.



Oil pressure gauge (LS & diesel)

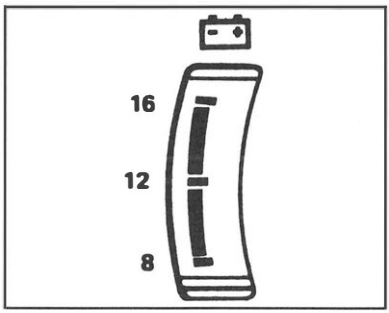
The oil pressure gauge indicates the pressure of oil in the engine. If the gauge needle does not deflect at all or it gives an erratic indication, check the engine oil level. If the oil level is normal, have the system checked at your nearest Holden Dealer. Do not run the engine with low oil pressure.



Voltmeter (LS & diesel)

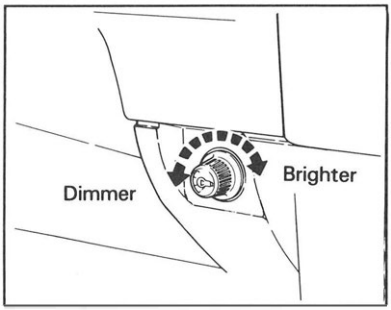
The voltmeter indicates whether the battery is being charged or discharged. Check voltmeter reading with engine running. The needle should be between 11 and 16 volts range.

If the needle does not indicate the specified range when the engine is running, have your nearest Holden Dealer check and correct the trouble as soon as possible.

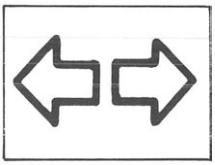


Dimming instrument brightness (where fitted)

Brightness of the instrument panel lights is adjusted by rotating the knob. The lighting will be turned off if the knob is turned all the way to the left. Refer page 1-0.



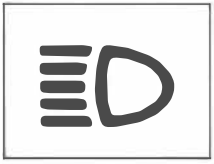
Turn signal indicator



The appropriate green arrow will continuously flash while the lever on the right side of the steering column is moved (refer page 1-6) and the ignition key is turned to the "ON" position.

NOTE: Both arrows will flash when the Hazard Warning Flashers are switched on, refer page 1-8.

High beam indicator



This symbol is displayed when the headlight high beams are in use.

Oil pressure warning

This symbol is displayed when the ignition key is turned to the "ON" position - before the engine is started. If the symbol comes on while driving, it indicates that the oil pressure is dangerously low. Stop immediately and check the engine oil level. If the level is normal, have the system checked at your nearest Holden Dealer. Do not run the engine with this symbol illuminated.

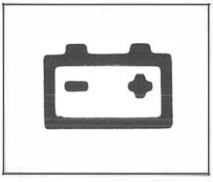
Low fuel indicator

This symbol is displayed when the fuel tank is nearly empty (down to approx. 8 litres), provided the ignition key is turned to the "ON" position.

Brake warning

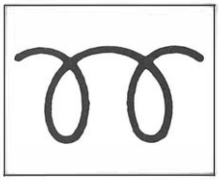
If this symbol is displayed when you are driving and the park brake is fully released it indicates that there may be a fault with the braking system. You should immediately stop the vehicle (as carefully as possible) and check the fluid level of the brake master cylinder, as shown on page 6-6. Do not proceed until the reason for the warning has been located and rectified.

Generator warning



This symbol is displayed when the ignition key is switched to the "ON" position - until the engine is started. If the symbol comes on while driving a state of "low charge" is indicated. This should immediately be seen to.

Glow plug indicator (diesel only)



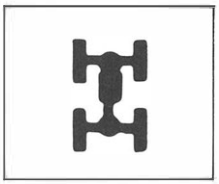
Your diesel engine has a special starting system. Turning the ignition key to "ON" starts the system and turns on the indicator light.

When the glow plugs have heated the engine enough for it to start, the indicator light will go out. This tells you the engine is ready to be started.

Fuel filter indicator (diesel only)

Under certain circumstances water may be taken into the fuel tank, and to prevent water from reaching the vital parts of the fuel system a water seperator is installed. When the level of water trapped within the water separator reaches the specified level, the indicator symbol is illuminated. If the symbol comes on and remains on while the engine is running, it indicates the need for draining the water seperator, refer page 4-11.

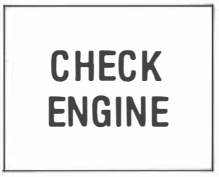
4 wheel drive indicator (4WD only)



This symbol is illuminated when the transfer lever is shifted into 4H or 4L position, provided the ignition key is turned to "ON".

Note that this does not necessarily mean that the vehicle is driving in 4 wheel drive, refer page 3-8.

Check engine warning (petrol only)



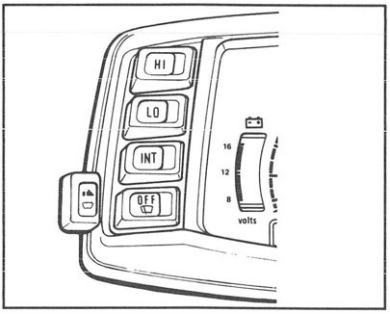
Your vehicle is fitted with an Electronic Engine Management System.

If the check engine light comes on whilst driving (either intermittently or continuously) then service to the Engine Management System is required. Although the vehicle may still be driveable and does not require towing, see your Holden Dealer as soon as possible for an inspection of the System, as continued driving could affect fuel consumption and engine performance.

NOTE: After turning the key to the "ON" position this symbol always comes on for about four seconds. It does not mean that the Engine Management System is malfunctioning.

Overdrive off indicator (auto. only)

This symbol is displayed when the ignition key is turned to the "ON" position and overdrive is switched off, refer page 3-6.



NOTE: The wipers and washers are only operational when the ignition key is turned to "ON".

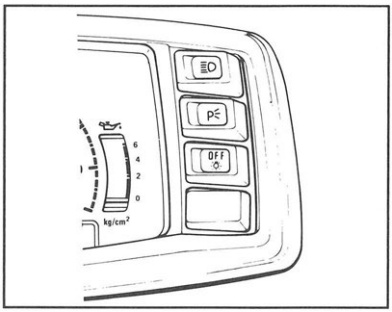
The wiper switch is mounted to the left of the instrument cluster.

Pressing the LO button allows the windshield wipers to operate at low speed. The HI button operates the wipers at high speed. INT (intermittent) is used when driving in conditions such as drizzle or mist. Pressing the OFF button stops the wipers.

Do not operate the wipers if the windshield glass is dry. It may scratch the glass. To obtain a spray of water onto the glass, push the washer button towards the instrument panel. This will automatically turn on the wipers for a short time, if not already operating.

Refer page 6-5 when topping up washer fluid.

Light switch



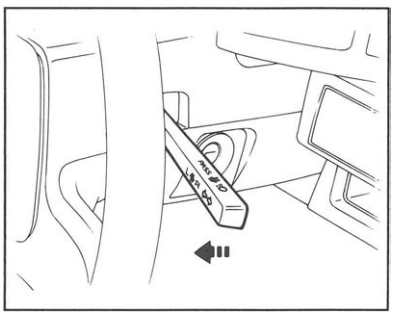
The exterior lights of your vehicle (except for the turn signals) are controlled by the switches on the right side of the instrument cluster.

The middle switch controls the park, tail, rear licence and instrument cluster lights.

The top switch controls all of the above lights as well as the headlights.

The lower switch turns off all the above lights.

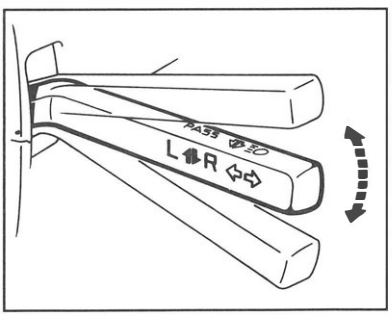
High/low beam



The headlight beam is alternately switched from high to low or from low to high each time the lever is pulled toward the steering wheel. The headlight high beam indicator on the instrument panel will illuminate when the headlights are on high beam.

NOTE: If this lever is operated when the light switch is OFF, the high beams will still operate.

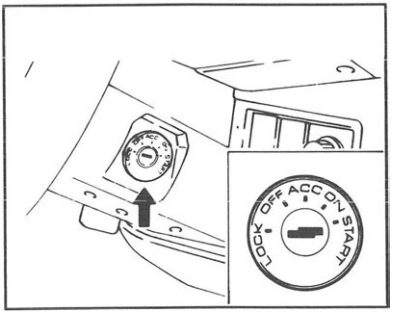
Turn signals



The turn signals are operated by the lever mounted on the right side of the steering wheel column. The lever is pushed up to signal a left turn and down to signal a right turn.

A green arrow on the instrument panel will flash when the lights are in operation.

Ignition switch



LOCK
Normal parking position. Accessories and engine are off. This position locks the ignition and steering when the key is removed. The key can only be removed at this position. To release the steering lock, insert the key into the switch and turn it to "OFF" or other positions. If you have trouble turning the key to unlock the steering, turn the steering slightly to the right or left while twisting the key clockwise.

OFF
The engine and accessories can be turned off without locking the steering.

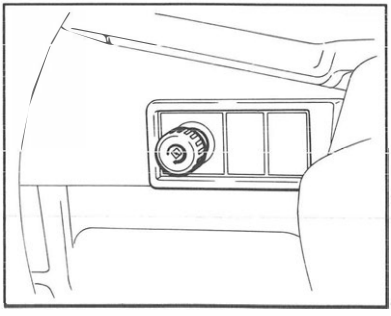
ACC
The engine is off but accessories such as the radio still operate.

ON
This is the position at which the engine is ready to start and all electrical systems are active. Do not leave the switch in the "ON" position for a prolonged period, unless the engine is running, otherwise the battery will discharge.

START
This is the position for starting the engine. The key should be released from this position as soon as the engine starts.

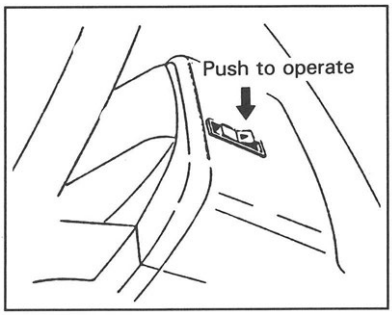
CAUTION: Do not turn the engine off while the vehicle is in motion as this renders ineffective any power assisted equipment (such as brakes or steering) operated by the engine. Never remove the key while the vehicle is in motion as this will lock the steering of the vehicle.

Diesel idling control knob



Turning the knob clockwise after cold engine starting will increase idling speed, thereby facilitating quick normalization of the engine. Remember to return the knob to the home position after the engine has warmed up.

Hazard warning flasher



Use the hazard warning flasher to warn other drivers any time your vehicle becomes a traffic hazard, day or night.

Turn on the hazard warning flasher (regardless of the ignition key position) by pushing the furthest section of the switch, as shown.

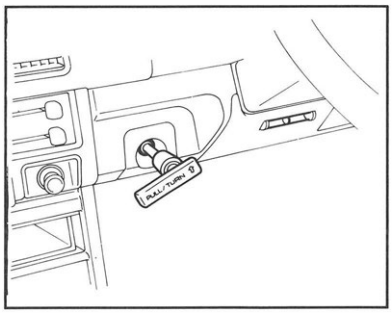
To cancel the flasher, push the closer section of the switch.

USE OF THE HAZARD WARNING SYSTEM WHILE THE VEHICLE IS MOVING IS PROHIBITED BY LAW IN SOME STATES.

Horn

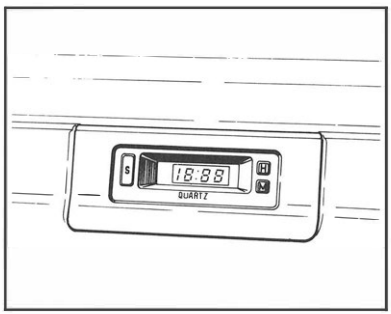
The horn is activated when the pad in the centre of the steering wheel is pressed, regardless of the ignition key position.

Park brake lever



A ratchet type park brake lever is mounted to the left of the steering wheel column. To apply the park brake, pull the lever out. To release, pull out and turn the lever anti-clockwise and then push is back into home position. Never drive with the park brake applied as this may overheat or otherwise damage the park brake mechanism.

Clock



Time is displayed when the ignition key is turned to "ON". The display is adjusted as follows:

"M" Minute display is advanced rapidly while this button is depressed.

"H" Hour display is advanced rapidly while this button is depressed.

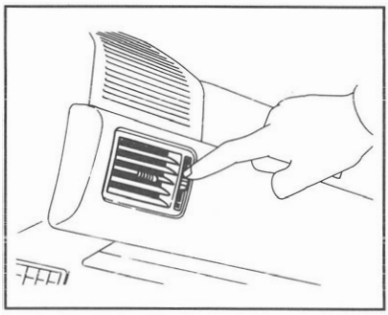
"SET Display is rounded off to the nearest hour when this button is depressed.

The clock does not display seconds, but starts from zero second when the "SET button is pushed.

The vehicle features a flow-through ventilation system for your comfort. Under reasonable conditions, it shouldn't be necessary to open the windows at any time. Fresh air (when selected by the Air Source Lever) is drawn into the vehicle through the grille in front of the windshield. Do not allow this to become clogged with leaves or snow.

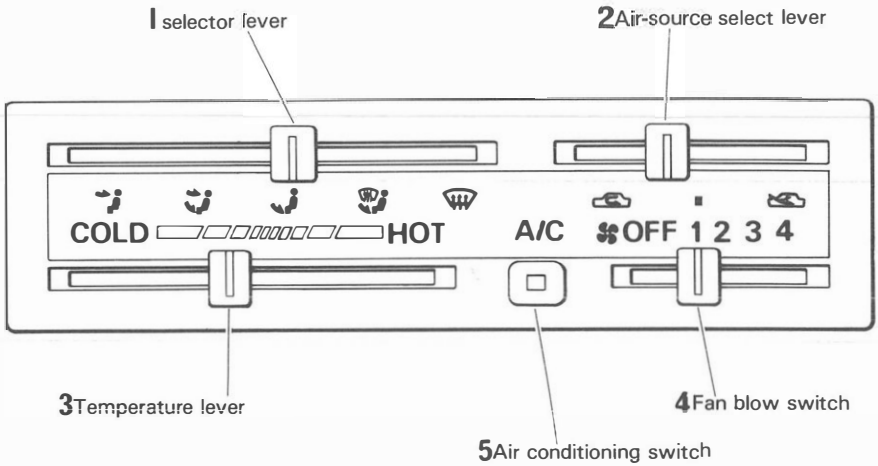
Outlets

The air can be directed by the Select Lever to four different types of outlets: window demister, windscreen demister, floor and face level.



The four face level outlets, located on the instrument panel, have adjustable vanes which may be swivelled up/down and left/right to allow directional control of air flow.

The floor, window demister and windscreen demister outlets are fixed, as these direct air to the windows, windscreen or feet in the best possible way.



1. Select lever

FACE. Air is delivered from the four face level outlets.

BI-LEVEL. Cooler air is delivered from the face outlets and warmer air from the feet outlets. This position can be used for most winter driving.

FEET. Air is directed to the feet.

FEET & DEMIST. Air is delivered from the foot level, window demist and windscreen demist outlets.

DEMIST. Air is delivered from the window demist and windscreen demist outlets with a small amount from the floor outlets.

2. Air source lever

Recirculated or outside air intake can be selected with the Air Source Lever. The recirculation position should be used (with the windows closed) when outside air is not wanted, as when driving in dusty conditions.

3. Temperature lever

The temperature lever regulates the temperature of the air entering the passenger compartment in all Select lever positions.

4. Fan blow switch

The fan lever (OFF- 4) provides speed control of the blower fan in all Select lever positions.

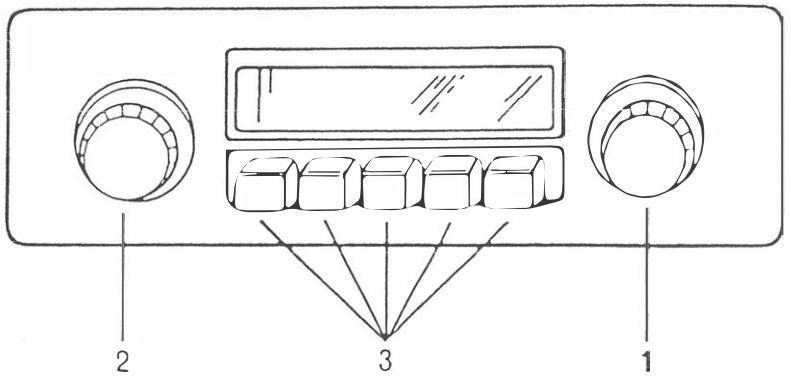
5. Air conditioning switch (if fitted)

Air conditioning (if fitted) is turned on when this button is depressed. Repress the button to switch off and achieve lower fuel consumption.

Windscreen demisting

To demist the windscreen, move the Select Lever to "DEMIST", select air flow and air source required. Demisting will be accelerated if higher temperature air is used.

In high humidity conditions however, operate the system for approx. 30 seconds before selecting "demist" position to purge air from the system.



The radio operates when the ignition key is turned to the "ON" or "ACC" position.

1. ON/OFF SWITCH, VOLUME, TONE

Press the front of the knob to turn ON the radio, press the knob again to turn OFF the radio.

VOLUME is adjusted by rotating the front section of the knob.

To adjust the TONE, turn the rear section of the knob clockwise to increase treble or anti-clockwise to increase bass.

2. RADIO STATION TUNING

Turning the left-hand knob alters the radio station TUNING. This can be done at any time and will not affect pre-set push buttons.

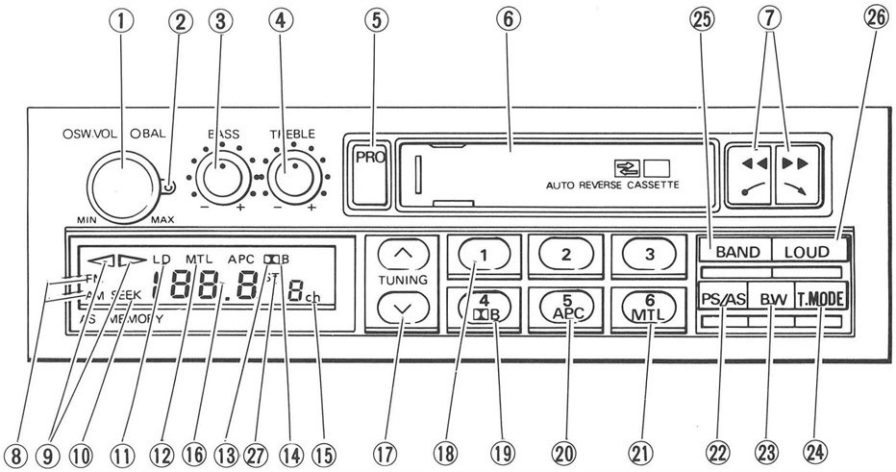
3. PUSH BUTTONS

The push-buttons enable you to tune the radio to any five selected stations without the need to operate the manual tuning control knob.

To reset:

1. Switch the radio ON.
2. Pull the push-button out as far as it will go.
3. Accurately tune in the desired station with the TUNE knob.
4. Push the button in as far as it will go.
5. Repeat this operation for the other push-buttons.

AM/FM STEREO RADIO CASSETTE (where fitted) 1-12



1. Power/ volume control knob
2. Balance control knob
3. Bass control knob
4. Treble control knob
5. Program select button
6. Cassette tape insert slot
7. Fast wind and eject buttons
8. AM, FM, FM1, FM2 band indicators
9. Program indicator
10. Seek indicator
11. Loudness indicator
12. Tape select indicator
13. Auto program control indicator
14. Dolby NR indicator
15. Preset channel display
16. Radio frequency display
17. Up and down tuning and seek buttons
18. Preset channel buttons
19. Dolby NR button
20. Auto program control button
21. Tape select button
22. Preset scan/auto store memory button
23. Band width button
24. Tuning mode select button
25. Band select button
26. Loud select button
27. Stereo indicator

General

1. Power on/off and volume control knob

Volume is adjusted by rotating the front section of the knob. To turn off the radio/cassette rotate the knob fully anti-clockwise.

2. Balance control knob

Use the toggle to adjust the balance between the left and right speakers.

3. & 4. Bass and treble control knobs

Rotate the knobs to achieve the desired tone. The treble, however, must be pulled out while adjusting. For both bass and treble, normal sound is obtained at the center click position.

11. & 26. Loud

When button no. 26 is pressed the volume is boosted to a higher level (the LD indicator no. 11 will illuminate when switched on). Repress to switch back to previous volume level.

Cassette operation

6. Cassette tape insertion slot

Insert the cassette with the side on which the tape can be seen facing right. Playback will begin as soon as the tape is inserted, providing the power is turned on.

5. & 9. Program

The arrows (no. 9) indicate the direction that the tape is playing. When the tape reaches the end of one side the arrow will change direction and tape will automatically begin playing the other side. Pushing the program button (no. 5) will also change the side of tape playing.

7. Fast wind, eject

If the program arrow is pointing to the left, then the LEFT WIND button will forward the tape and the RIGHT WIND button will rewind the tape. However, if the program button is pointing to the right, then the LEFT WIND button will rewind the tape and RIGHT WIND button will forward the tape. In either case, rewinding or forwarding is stopped by pushing the opposite switch.

To EJECT the cassette, depress both fast wind buttons simultaneously.

13. & 20. Auto program control (APC)

The auto program control reads blank spaces in the tape when the tape is rewinding or forwarding, e.g. will wind the tape to the start of a song (the APC indicator no. 13 will illuminate when switched on). The APC button (no. 20) must be depressed before depressing the fast wind button.

14. & 19. Dolby

Press in button no. 19 if the cassette tape was recorded using Dolby noise reduction, as this reduces tape hiss or background noise The Dolby NR indicator (no. 14) will illuminate when switched on.

12. & 21. Tape selection

Depress button no. 21 when using metal or chrome tapes. The tape select indicator (no. 12) will illuminate when in use. Repress the button to switch off when using normal tapes.

Radio operation

8. & 25. Radio band - AM, FM1 & FM2

When button no. 25 is pressed the radio band switches between AM, FM1 and FM2. Indicator no 8 displays the band being received.

23. Band width (AM)

When pressed during AM stereo reception "BW" appears on the display (no. 16) and the treble is increased to provide stereo sound with higher quality.

17. Tuning

Press the top tune button to tune up the frequency or the lower button to decrease the frequency. If the button is lightly tapped, the radio tunes by one step (0.1 MHz for FM1 or FM2 and 9 kHz for AM). If the button is kept depressed continuously, the radio keeps tuning until the button is released.

10. & 24 Seek

Seek enables the radio to rapidly tune to the next station frequency. The seek button (no 24) must first be depressed before either the up or down tuning buttons (no. 17) is used. The seek indicator (no. 10) will illuminate when the seek is switched on.

15. &18. Radio preset switches

The preset switches enable you to tune the radio to any of six AM and six FM stations without the need to operate the manual tuning control.

To reset:
Tune (using the SEEK or manual TUNING methods) to the desired station. Depress and hold a preset button (no. 18) for at least 2 seconds. The sound will go off, then come back on when the station has been preset. Indicator no. 15 will display the button number that the station (channel) has been programed to.

22. PS/AS - preset scan / auto store

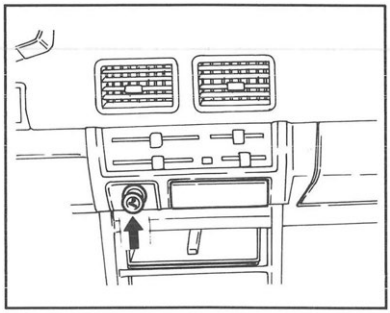
The preset scan function starts when button no. 22 is pressed lightly (for less than 2 seconds), and the auto store memory function starts when button no. 22 is pressed for longer that 2 seconds.

AUTO STORE. The radio will find and store in the preset memory the six stations with the strongest reception signals for AM, FM1 and FM2. If fewer than six stations with strong reception can be found this function will not end and so must be interrupted by pressing button no. 22 again.

PRESET SCAN. The radio stations stored on preset buttons (no. 18) are automatically received for 6 seconds each in order starting from the station stored on button 1. This function is particularly useful after using the AUTO STORE function. To stop this function, either press button no. 22 again or press one of the preset buttons.

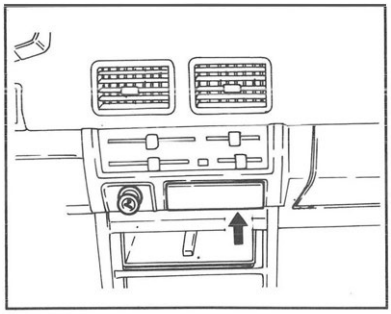
Cigarette lighter

The cigarette lighter is operational with the ignition key in either the "ON" or "ACC" positions. To operate, simply press in the lighter knob. When the element is hot the lighter will automatically pop out, ready for use.



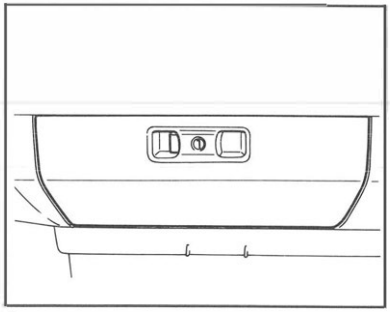
Ash tray

To use, pull out the tray. To clean, remove the tray by pulling it out while depressing the cover flap.



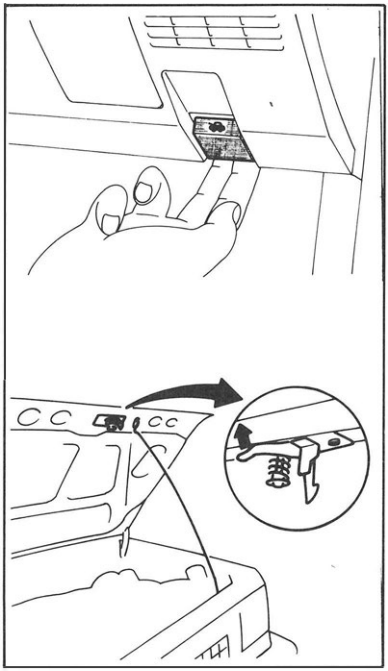
Glovebox

The glovebox is provided on the passenger side of the instrument panel.
To open the lid, turn the lock button clockwise and pull out. To lock, insert the key into the lock button and turn anti-clockwise.



To open the bonnet, pull bonnet lock release located beneath the instrument panel, to the right of the steering column. This allows the bonnet to release but is prevented from opening by the safety catch. To open completely, reach in under the bonnet and move safety catch upwards. Hold in this position, raise bonnet and support by inserting support rod into the provided slot.

For closing, return support rod to its resting position and lower bonnet gradually to be finally dropped under its own weight.



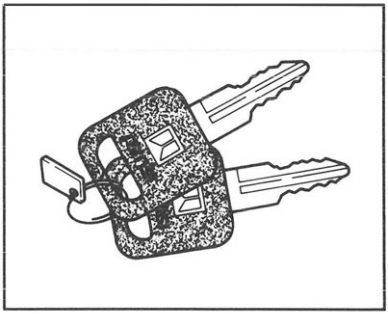
Chapter 2

Other Features

Page

2-1 Keys
2-1 Fuel Filler Tank Door
2-1 Glovebox
2-1 Door Locks
2-2 Seat Adjustment
2-3 Seat Belts
2-5 Mirrors
2-6 Windows
2-6 Interior Light
2-6 Antenna

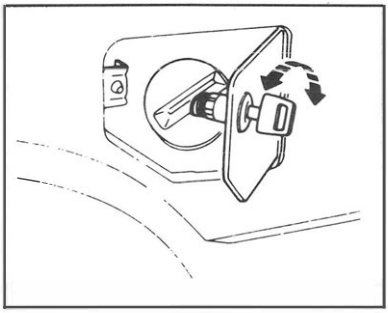
Keys



The code number is stamped on the key. Record the key number and keep the number in a safe place - NOT IN THE VEHICLE.

In the event of the original keys being lost a duplicate can be made by your Holden Dealer, using your key code number.

Fuel tank filler door



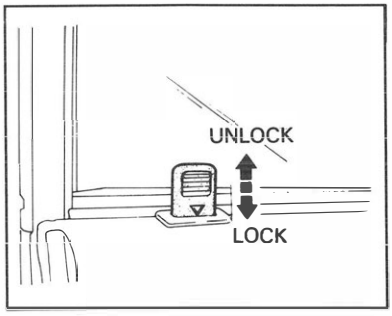
The vehicle is equipped with a lockable fuel filler door (or cap) which can be unlocked or locked with the ignition key.

After refuelling, check to be sure the fuel filler door (or cap) is locked up properly. Refer to information on the inside of the rear cover of this Handbook when refuelling.

Glovebox

Refer page 1-15.

Door locks

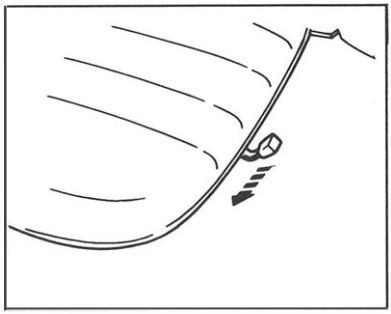


Doors are unlocked when the lock button is up and locked when the lock button is down.

Doors may be locked behind you by depressing the lock button when the door is open then shutting the door while the door handle is pulled outwards.

In addition, front doors may can be locked or unlocked from outside the vehicle with the ignition key. Turn the key towards the front of the vehicle to lock, towards the rear to the vehicle to unlock.

Driver's seat

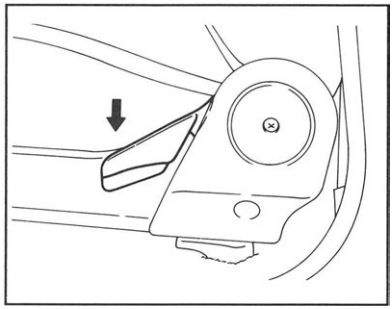


Push sideways on the lever, located at the front lower part of the seat, to release the seat adjuster lock to that the seat can be moved forward or rearward as desired. After adjusting the seat position, try to move the seat forward and backward to be sure the seat adjusters have been latched.

Do not adjust the seat while the vehicle is moving.

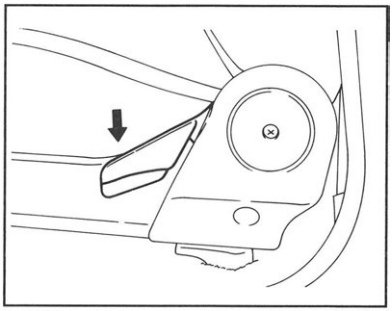
Some models will also have a similar adjustment for the passenger seat.

Back inclination (where fitted)



Inclination of the back of the seat can be adjusted by raising the lever on the door side of the seat

Walk-in system (space cabs)



The passenger side seatback inclines down and the whole seat assembly will slide all the way forward as the reclining lever is pushed down.

Retractor Belts

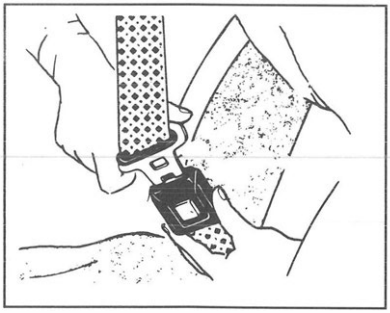
To put on a retractor seat belt, pull the metal tongue across your body and clip it into the buckle. When the metal tongue has locked safely into place you will hear a "click". After fastening, settle the belt by running your hand under the belt starting at the hip, go across to the buckle, then up under the sash. Any extra belt length will retract automatically.

The lap section should be worn as low as possible on your hips, not on your waist. Make sure the sash and lap sections of the seat belt are free from twists and are fitting firmly.

The emergency-locking retractor belt allows you to move freely while the vehicle is travelling normally. The belt will lock immediately on fast braking, impact with a solid object or any quick movement by the wearer.

To release the belt, press the release button on the buckle and allow the belt to retract. Check that it fully retracts without twisting or turning.

Non-retractor belts



To adjust: Settle yourself comfortable. Bring the tongue adjuster across your body and clip it into the buckle. When the metal tongue has locked safely into place you will hear a "click". Make sure the belt is fitting firmly across the lower hip area and not across your waist.

To shorten: Tilt the tongue adjuster and pull the belt through the belt adjuster.

To lengthen: Tilt the tongue adjuster and pull the belt from just below the finger grip bar.

To release the belt, press the release button on the buckle.

Maintenance of seat belts

Check seat belts regularly. Replace the belts if they become frayed or damaged. The buckle and retractor mechanism operations should also be checked. Your Holden Dealer will regularly do these things as part of the scheduled maintenance plan, refer page 8-5.

Seat belts must be replaced if they have been in use during a severe impact - even if there is no obvious damage.

Clean belts only with a solution of mild soap and lukewarm water. Never use bleach.

Infant and child restraints

CHILDREN SHOULD BE RESTRAINED AT ALL TIMES WHEN RIDING IN A MOTOR VEHICLE.

In some states it is Law that children must be belted in, whenever they are travelling in a vehicle in which seat belts are installed. CHILDREN ABLE TO SIT UP should be restrained with a regular seat belt or an approved child restraint.

Where children are restrained with the regular belt and it is desired to raise their seating position this is to be done only be means of a support which is retained by the belt. NEVER USE A LOOSE CUSHION AS THIS COULD ALLOW SERIOUS INJURY IN THE CASE OF VEHICLE COLLISION.

Australian Design Rules: WARNINGS

Seat belts are designed to bear upon the bony structure of the body, and should be worn low across the front of the pelvis, or the pelvis, chest and shoulders, as applicable; wearing the lap section of the belt across the abdominal area must be avoided.

Seat belts should be adjusted as firmly as possible, consistent with comfort, to provide the protection for which they have been designed. A slack belt will greatly reduce the protection afforded to the wearer.

Care should be taken to avoid contamination of webbing with polishes, oils and chemicals, and particularly battery acid. Cleaning may safely be carried out using mild soap and water. The belt should be replaced if webbing becomes frayed, contaminated or damaged.

It is essential to replace the entire assembly after it has been worn in a severe impact even if damage to the assembly is not obvious.

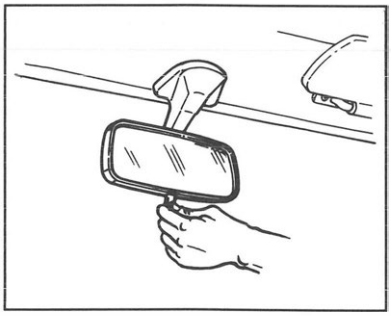
Belts should not be worn with straps twisted.

Each seat belt assembly must only be used by one occupant; it is dangerous to put a belt around a child being carried on the occupant's lap.

No modifications or additions should be made by the user which will either prevent the seat belt adjusting devices from operating to remove slack, or prevent the seat belt assembly from being adjusted to remove slack.

The positioning of the tongue restrictor must never interfere with or stop the belt from fully retracting.

Inside rearview mirror

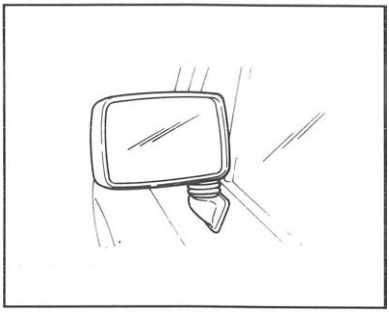


Move the mirror right/left or up/down to gain the required angle.

The anti-glare lever on the lower edge of the mirror enables a reflector to be used during night driving. This reduces glare at night from following vehicles.

During normal daylight operation, the lever should be set forward. To reduce glare at night, move the lever towards you.

Outside rearview mirror(s)



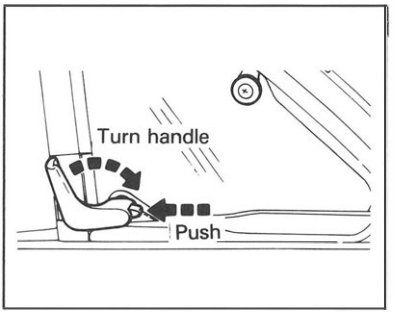
Adjust the outside rearview mirror so you can just see the side of your vehicle in the side of the mirror. This helps you determine your relation to objects seen in the mirror. When selecting the most suitable angle ensure that the driver's head is in the normal position for driving, then adjust the mirror angle to suit.

Window regulator handle

Turn the regulator handle to raise or lower the door windows.

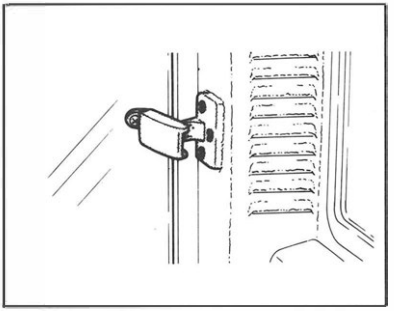
Door vent windows

To open the door vent windows, turn the handle forward while pushing the lock button in and then push the window outwards. To close, pull the window inward and turn the handle until it locks against the window frame.



Quarter windows (space cabs)

The quarter window on each side can be opened and closed by operating the catch handle.

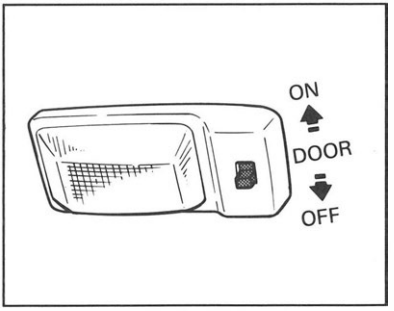


Interior light

DOOR: The light turns on when the door is opened.

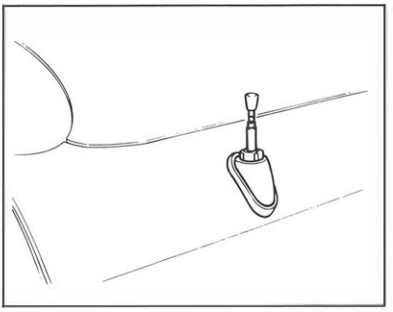
ON: The light turns on regardless of the door position.

OFF: The light remains off.



Antenna

Pull out the antenna to gain sensitivity.



Chapter 3

Starting, Driving & Towing

Page

3-1 Safety
3-2 Petrol Engine Starting
3-3 Diesel Engine Starting
3-4 Driving Precautions
3-5 Manual Transmission
3-6 Automatic Transmission
3-8 4 Wheel Drive (where fitted)
3-10 Towing & Loading
3-12 Running-in
3-12 Reducing Fuel Consumption

EXHAUST GAS WARNING - (Carbon monoxide poisoning)

Exhaust gases contain carbon monoxide, a dangerous gas, which can cause unconsciousness and even death to both humans and animals.

You could inhale the gases if the exhaust system on your vehicle is faulty.

To protect against exhaust gas entry into the interior of the vehicle we recommend that the exhaust system and body be thoroughly inspected:

- each time the vehicle is serviced
- whenever a change is noticed in the sound of the exhaust system
- whenever the exhaust system, underbody or rear of the vehicle is damaged.

Take the vehicle to your Holden Dealer if you think your vehicle needs inspecting for any of the above reasons.

DO NOT SIT IN A PARKED VEHICLE FOR ANY EXTENDED PERIOD OF TIME WITH THE ENGINE RUNNING AND DON'T LEAVE THE CHILDREN OR PETS IN THE VEHICLE EITHER.

DO NOT RUN THE ENGINE IN AN ENCLOSED AREA SUCH AS THE GARAGE, ANY LONGER THAN IS NEEDED TO MOVE THE VEHICLE.

BEFORE ENTERING THE VEHICLE

1. Check that windows, mirrors and lights are clean.
2. Check tyre inflation.
3. If you intend to reverse, check that the area behind your vehicle is clear.

BEFORE DRIVING OFF

1. Be sure that all doors are secured.
2. Position your seat for comfortable driving.
3. Adjust rear vision mirrors.
4. FASTEN SEAT BELTS.
5. Check that all the warning indicators light up when you turn the key to start the engine.

PARKING

1. Apply the park brake.
2. Place manual transmissions in REVERSE and automatic transmissions in PARK.
3. Turn ignition key to LOCK and remove the key.
4. Shut all windows and lock all doors.

CAUTION: Be careful where you park or drive. As with any vehicle, do not park or operate this vehicle in areas where combustible materials such as dry grass or leaves can come in contact with a hot exhaust system.

1. Apply the park brake firmly and release only after you have started the engine and ready to drive off.

2. MANUAL: Depress the clutch pedal and shift the gear lever to Neutral position. The clutch pedal can now be released.

   AUTOMATIC (where fitted): Move the shift lever to P(park) or N(neutral) position. The engine will not start if it is in any other position.

3. Start the engine as outlined below (with your foot off the accelerator).

   For cold or hot starting the procedure is the same. Simply turn the key to the START position and release when the engine starts. You do NOT have to depress the accelerator pedal prior to or during cranking.

   NOTICE: You should not subject the engine to high load conditions such as full throttle acceleration or high speeds until is has completely warmed up.

Flooded engine

Cranking the engine for a lengthy period without it starting could result in there being too much fuel in the engine.

If this occurs, press the accelerator down to the floor and hold it there while holding the key in the START position. When the engine starts, allow the accelerator pedal to come up slowly.

Glow plug indicator light

Your diesel engine has a special starting system. Small heating elements, called "glow plugs", warm part of the engine for improved starting. The glow plug indicator light tells you when the engine is ready to be started.

Turning the ignition key to the "ON" position starts the system and turns on the indicator light. This indicator light is located on the instrument panel, refer page 1-3.

The light may stay on for a short time or go out right away. The waiting time will vary with the engine temperature.

When the glow plugs have heated the engine enough for it to start, the indicator light will go out. This tells you the engine is ready to be started. If the light fails to come on, see your Holden Dealer.

Starting

Turn the ignition key to the "ON" position and check to see that the glow plug indicator light has turned on.

As soon as the glow indicator light has gone off, fully depress the accelerator pedal once and release. Depress the clutch pedal.

Crank the engine by turning the ignition key to the "START" position. Release the key when the engine has started. It will return to the "ON" position.

If necessary to achieve a smooth idle, turn the idling control button clockwise. Remember to turn it fully anti-clockwise when the engine has warmed up (as indicated by the coolant temperature gauge).

NOTE: Do not keep cranking the engine for more than 30 seconds if the engine fails to start. Wait for 30 seconds before trying again.

Brakes

Power assisted brakes, which are fitted to your vehicle, utilise vacuum from the engine when it is running. Never let the vehicle run down steep grades without the engine running. Never coast with the engine switched off.

A decrease in driving, cornering and braking traction occurs when water, snow, ice, gravel or other materials are on the road surface. Driving practices and vehicle speed should be adjusted to the road conditions.

Driving through water may affect performance. Applying the brakes lightly will indicate whether they have been affected. To dry them quickly, lightly apply the brakes while maintaining a slow forward speed with an assured clear distance ahead until brake performance returns to normal.

Brake pedal travel should not be obstructed by ill-fitting floor mats or any other material under the pedal which causes interference with normal pedal movement.

Your seat should be positioned so that you can reach the brake pedal satisfactorily under all braking conditions.

Power steering (where fitted)

Power assisted steering, which is fitted to your vehicle, has been designed to reduce steering effort. It uses hydraulic pressure to lighten steering loads and is designed so that "road feel" is retained. Care should be taken not to hold a turning force on the steering wheel when stationary (i.e. when waiting before turning a corner, etc.) as this creates unnecessary high operating pressures within the system.

If the power steering is rendered ineffective because the engine has stalled, the drive belt broken or if the pump reservoir is empty of fluid, the car can still be steered. However, due to the much greater effort required to steer, it is recommended that you have the problem fixed promptly.

Water crossing

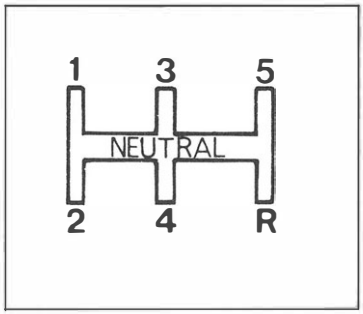
Whenever driving across a shallow river or deep puddle, extreme care must be exercised or water may enter the engine air intake causing serious engine damage.

To prevent water being forced through the grille into the engine compartment, tie a sheet of canvas or some other suitable material to the underside of the front bumper bar and wrap it over the bumper, grille and top of the bonnet with a tie back to the door mirrors.

Remember that steady speed and constant traction are necessary for successful water crossing.
When the crossing is completed, remove the canvas.

This system has 5 fully synchronised forward gears and a non synchronised reverse gear. The shift pattern illustrated, is also found on the end of the gear shift lever.

Never attempt to engage "Reverse" gear until the vehicle has completely stopped. A slight pause between depressing the clutch pedal and moving into "Reverse" gear is desirable to allow all the rotating components to stop and avoid gear crashing.



Operating notes

When shifting from one gear to another, be sure to depress the clutch pedal fully to avoid clashing and possible chipping the transmission gears.

Shift the gear with a moderate effort to allow time for the transmission synchronizers to work properly.

Whenever "Reverse" is selected with the ignition on, the back-up lights will operate.

Do not drive with your foot resting on the clutch pedal as damage to the clutch may result.

When stopped on an incline do not hold the vehicle by slipping the clutch. Use the park brake or brake pedal.

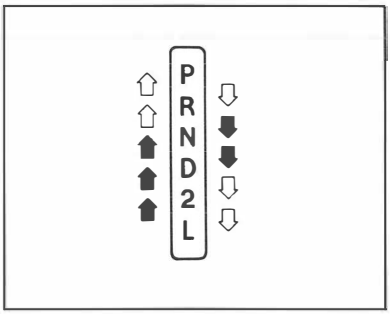
When climbing steep grades, change down to a lower gear before the engine starts to labour. To maintain safe speeds on a steep downgrade and to reduce brake wear and overheating, shift into a lower gear before starting the decent.

Do not overspeed the engine when shifting down to the next lowest gear.

Depress the square button on the right side to the T-bar handle when shifting to R or P and when shifting from D to 2 to L , as indicated by the white arrow.

You may shift without depressing the button into any positions indicated by the black arrow.

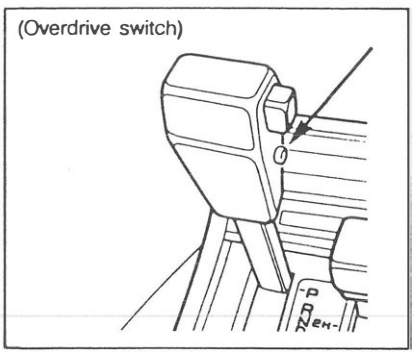
NOTE: The engine will not start unless the selector is in P(park) or N(neutral).



4th gear (overdrive) switch

The small, round button on the right side of the T-bar handle is the 4th gear (overdrive) switch. When the switch is out and "D"(drive) is selected, the transmission will act as a "4 speed", changing from low gear through to 4th gear, as required by road speed and acceleration.

(Overdrive switch)



The transmission, however, will not change to 4th gear (even with the button out) until the engine has reached normal operating temperature.

If engine braking is needed when going downhill in "D" drive or the transmission is repeatedly up and downshifting between 3rd and 4th gears when climbing gentle slopes it is suggested the 4th gear be switched off. To reduce fuel consumption and noise, select overdrive again when these road conditions do not apply. The O.D OFF light on the instrument panel is designed to remind you when 4th gear is switched off.

P (park)	This stops the rear wheels from turning and should be selected (together with the park brake) when leaving the vehicle. Never select P until your vehicle is fully stopped.
R (reverse)	Never select R until your vehicle is fully stopped. Reversing light will operate when R is selected and the ignition is on. After reversing, make sure the vehicle has fully stopped before proceeding forward again.
N (neutral)	This is the out-of-gear position. You may then restart a stalled engine while the vehicle is still moving.
D (drive)	This is the normal forward driving position and allows the transmission to choose the appropriate gear for the load and driving conditions.
2 (second)	Use this position when going down a moderate gradient where you want to slow down a little without using the brake. Shift back into the "D" position to return to normal driving.
L (low)	Use this position when strong braking effect is needed on a steep gradient. Remember to shift back to "D" range so that the transmission will again upshift into direct drive.

Don't rev the engine with the brakes on in either L, 2, D, or R. This will overheat the transmission.

Don't rev the engine to hold the car on a slope. Use the brakes.

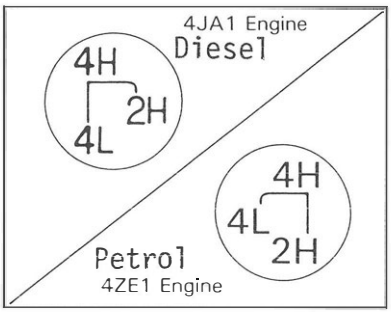
Don't ever coast the vehicle in N - this lessens your control and the engine braking power.

Refer page 6-4 when checking automatic transmission fluid level.

4 Wheel drive/2 wheel drive selection is made by both transfer lever position (from inside the vehicle) and front (left and right) wheel hub position. That means that the vehicle will not operate in the 4 wheel range until the wheel hubs have been locked - even if the transfer lever is in the 4L or 4H position.

Transfer lever

2H: Rear wheel drive, high range
4H: Four wheel drive, high range
4L: Four wheel drive, low range

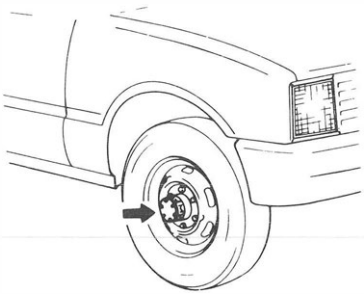


When the transfer lever is in 4H or 4L mode the indicator light on the instrument panel will glow.

To select 4 wheel drive

1. Stop the vehicle.
2. Shift the transfer lever to 4H or 4L.
3. Set both left and right wheel hubs to the "LOCK" position.

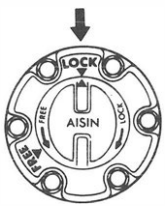
If front hubs are already locked, 4WD can be selected at any speed up to 80 km/h.



To select 2 wheel drive

1. Stop the vehicle.
2. Shift the transfer lever to 2H.
3. Set both left and right front wheel hubs to the "FREE" position.

2WD can be selected at any speed but remember to unlock the wheel hubs when convenient.



4ZE1 engine (petrol)

4H to 4L or 4L to 4H shift can be made with vehicle moving. Caution should be used when shifting from 4H to 4L to prevent engine overreving. Depress and release clutch pedal fully when shifting transfer lever.

4JA1 engine (diesel)

Vehicle must be stationary when shifting from 4H to 4L or 4L to 4H.

CAUTION:

Never drive the vehicle with the front wheel hubs in the "FREE" position and the transfer lever in 4H or 4L.

Never LOCK one hub only - both sides must be either in the locked or freed position.

Vehicles should never be operated on hard surfaces or sealed roads for a distance above 1/4 kilometre in 4L or 4H with the hubs in the "LOCK" position.

Running-in

To properly run-in front wheel drive axle components, drive the vehicle for the initial 300 km with the wheel hubs in the "LOCK" position.

To ensure proper lubrication of the front wheel drive axle components, the vehicle should be driven for a minimum of 20 km every month with the wheel hubs in the "LOCK" position.

However, to reduce fuel consumption under normal driving conditions, the wheel hubs should be in the "FREE" position and the transfer lever in the 2H position.

Overloading is a safety hazard and could also shorten the life of your vehicle or its parts.

KERB MASS

The kerb masses shown below are for the weight of a standard (manual, petrol, 2WD) unloaded vehicle with 10 litres of fuel in the fuel tank. Add 20 kgs if automatic transmission fitted; add 35 kgs if diesel engine fitted; add 190 kgs if 4WD.

DLX	Chassis Cab ...	1,175 kgs
DLX	Crew Cab	1,365 kgs
DLX	Pick-up	1,305 kgs
LS	Space Cab.....	1,345 kgs
LS	Pick-up	1,265 kgs

G.V.M.

Gross Vehicle Mass (G.V.M.) is the total weight that a vehicle is allowed to weigh when fully loaded. This must include luggage, passengers, a full tank of fuel and towbar ball load. The maximum, allowable G.V.M. for 2WD vehicles is 2,730 kgs, 4WD is 2,740 kgs.

TOWBAR BALL LOAD

Towbar ball Load is the weight on the towbar ball when the packed trailer is hitched.

Ideally, the ball load should be 10% of the packed trailer weight. This can be adjusted by correctly packing the contents of the trailer.

If the ball load is too light or too heavy, the steering and handling of the vehicle will be greatly impaired.

G.C.M.

G.C.M., or Gross Combined Mass is the maximum, allowable combined weight of a vehicle (with passengers, luggage and a full tank of fuel) plus the weight of a packed trailer.

The maximum, allowable G.C.M. for 2WD vehicles is 3,730 kgs, 4WD is 3,740 kgs.

FRONT & REAR AXLE LOADS

The maximum allowable front axle load for 2WD vehicles is 1,050 kgs, 4WD is 1,100 kgs. The maximum allowable rear axle load for both axle types is 1,680 kgs. However, the combination of the front and rear axle load should never exceed the maximum G.V.M.

Remember to take the towbar ball load into account when determining the rear axle load.

Safe towing tips

Your vehicle will handle differently with a towed load. It's a good idea to make a proper familiarization run.

Have your vehicle correctly maintained and serviced.

You should have an extended-arm mirror on both sides of your vehicle.

Headlights may need re-aiming after the loaded trailer has been hitched.

Use a lower gear, rather than your brakes when decending steep hills.

Avoid sudden steering manoeuvers at high speed to minimize trailer weight affecting vehicle and trailer control.

Towing precautions

1. Do not use axle-mounted hitches.
2. Trailer brakes must meet State Law requirements where you will be driving.
3. It is permissible to tap into the brake system with a unit not more than 0.21cc of fluid displacement during the operation of the brakes.
4. Ensure that the tow bar does not obscure the rear licence plate, as this may violate State Law. If necessary, the towbar tongue may need to be removed when not required for towing.
5. Correctly rated towbar and tongue package must be used.
6. If your vehicle has an automatic transmission then the fluid in the transmission will have to be changed more often when towing, refer page 8-2.

Running-in when towing

It is best to drive your new vehicle for 1,500 km before towing a load. If you must tow before this do not exceed 70 km/h on good roads. No heavy, off road towing should be attempted before 1,500 km.

"Running-in"

These days, there's no need to follow the formal running-in schedule. However, by observing a few simple precautions during the first few hundred kilometres of driving you will greatly assist your vehicle's future performance and economy.

For the first 500 kilometres, don't exceed 90 km/h. Up to 1,500 kilometres avoid driving at any one speed - either slow or fast - for any length of time.

Include some higher speeds during this period. Always drive at moderate speed until the engine has completely warmed up.

For the first 500 kilometres heavy braking should be avoided, except in an emergency, since brake misuse during this period could impair future braking efficiency.

It is best to drive your new vehicle for 1,500 kilometres before towing a load. If you must tow before this do not exceed 80 km/h on good roads. No heavy off road towing should be attempted before 1,500 km.

4WD - also refer page 3-9 for running-in front wheel drive axle components.

How to reduce fuel consumption

(1) VEHICLE MAINTENANCE

Maintain your vehicle in peak mechanical condition by having it serviced regularly in accordance with the Holden Maintenance Schedule, refer page 8-1. This will ensure items such as engine timing, spark plugs, air cleaner, engine idle speed etc. are maintained for least fuel consumption.

(2) TYRE PRESSURES

Keep the tyres at the recommended pressures. Under-inflated tyres create extra rolling resistance which contributes to increased fuel consumption, refer page 6-7.

(3) WARM UPS AND EXCESSIVE IDLING

Avoid long engine warm ups. They are unnecessary and waste fuel. An engine takes approximately five minutes to reach its efficient operating temperature and it does this most effectively by driving on the road.

You should also avoid excessive engine idling. If your have to wait for more than a couple of minutes turn off the engine to conserve fuel.

(5) ACCELERATING, DRIVING AND BRAKING

Accelerate gently - avoid rapid starts, sudden bursts of speed and full throttle accelerations - they're certain fuel wasters.

Drive the vehicle at steady speeds where possible (after run-in). It is desirable to achieve top gear operation as soon as possible, but under no circumstances should you force the engine to labour in top gear.

NOTE: "Riding the brake" by resting your foot on the brake pedal when you do not intend to brake can cause overheated brakes. This can wear out the brake linings and pads faster, damage the brakes and waste fuel.

Chapter 4

Accidents & Emergencies

Page

4-1 - What to do at the Scene of the Accident
4-2 - Medical Assistance
4-3 - Hazard Warning Flashers
4-3 - Towing a Vehicle
4-4 - Spare Wheel & Tools
4-5 - Flat Tyre
4-7 - Engine Overheating
4-9 - Flat Battery
4-11 - Draining of Water Separator (Diesel)
4-12 - Bleeding of Fuel System (Diesel)

All motorists are advised to learn what to do at the scene of an accident, particularly where persons are injured. Injured people can choke to death if their air passages are not cleared. They can bleed to death unless the bleeding is stopped. They may require mouth-to mouth resuscitation, may have to be moved, even though badly injured. It is important that you understand how to avoid further damaging an injured neck or back or other broken limbs.

The following notes may help.

Part 1. Accident - being involved.
Part 2. Accident - being a witness.
Part 3. Medical assistance.

Part 1. Accident - being involved.

If you are involved in an accident you are advised to do as follows:

Stop immediately and remember to turn off the engine and apply park brake.

Remember that time is vital. Remain calm and alert. Think quickly and clearly.

Give all possible assistance to all injured persons (see Part 3. Medical assistance).

Send for police and ambulance if anyone has been injured. Send information as accurately as possible. Give the exact location, the number of injured people and a brief report on the overall situation.

Perhaps take charge of the situation.

Warn all other traffic approaching the scene. Turn off ignition switches. Stop any smoking near spilt petrol. In darkness, try and light up the area to warn others.

Clear the road of accident debris.

Exchange your name, address, vehicle registration number and the vehicle owner's name and address with the other parties involved in the accident.

If damage to property only has occurred, report the facts to the owner of the damaged property or to his or her representative; to any police present at the scene or to the nearest Police Station.

Try to note all important facts because such details may be important if needed later.

Part 2. Accident - being a witness

If you witness a road accident or it becomes your task to stop and help at the scene of an accident, do this:

Keep in mind that an observant witness can prove most helpful. Some day you yourself might be very glad of help from a witness.

DO NOT stop at the scene of an accident *just to be a spectator.*

Where other people are already in attendance and giving assistance, **you should stop only if you can contribute assistance.**

Give what assistance you can to any injured persons. (See Part 3. Medical assistance).

Follow most of the steps suggested in Part 1. Perhaps you may have to take charge of the accident situation.

Part 3. Medical assistance

Keep calm and think clearly.

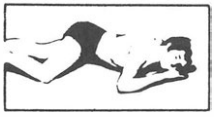
Your experience may not be much but do your best. Don't just stand by and let an injured person die.

Look after the unconscious person first. Check for breathing. If no breathing, than check if air passages are clear, i.e. nose and mouth. Use your fingers to clear air passages if necessary. If the air way is clear then mouth-to-mouth resuscitation may be needed at once.

Unconscious people can choke.
Carefully turn to one side.
Tilt the head back slightly.
Wipe out the mouth with your finger to remove blood, vomit, broken teeth or dentures.

You must be most careful in moving an injured person. Often it is best not to move at all but in conditions of danger, this is not always possible. Serious and permanent damage can be done to an injured neck or back if not supported during movement. NEVER BEND A NECK OR BACK. KEEP THEM STRAIGHT. All injured limbs require support when an injured person has to be moved.

Provided it is not dangerous to do so because of other injures, an unconscious person will do best in the "coma position" illustrated here.



Lay the person on one side and - if it will not aggravate any injures - then:
Bend the uppermost knee until the thigh is at right angle to the body.
Bend the uppermost arm and elbow so that the hand lies near the face.
Gently pull the underneath arm so that it rests straight on the ground free of any body weight.

Try to stop bleeding by applying direct pressure, using your hand, or by pressing torn flesh together. Use any clean cloth available. Fold cloths to make pads. If necessary press one pad on top of another. Keep pressure around edges of a wound BUT NEVER USE A TOURNIQUET.

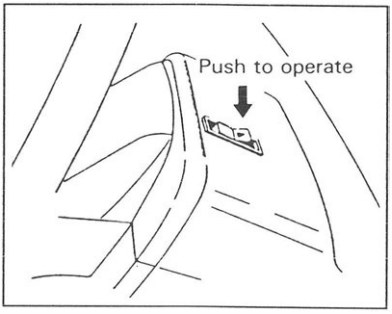
Shock may be treated by reassurance, relieving pain, controlling any bleeding and keeping the injured person warm *but not hot.* Best not to give any fluids and NEVER ALCOHOL.

If the injured person is in danger and has to be moved, try and have three or four people help and concentrate on not bending the neck, spine and injured limbs. **Keeping the neck and spine straight is most important.**

Illustrations reproduced from "The Victorian Road Code" with permission from Road Safety and Traffic Authority of Victoria.

Hazard warning flasher

Use the hazard warning flasher to warn other drivers any time your vehicle becomes a traffic hazard, day or night. Avoid stopping on the roadway if possible.



Turn on the hazard warning flasher by pushing the furthest section of the switch. The arrow symbols on the instrument panel will both flash simultaneously and all four external signal lights will flash continuously.

The hazard warning flasher will work with the ignition either off or on.

To turn off, push the closer section of the switch.

Towing a disabled vehicle

Proper lifting or towing equipment is necessary when lifting or towing the vehicle to prevent damage during any towing operation. State and Local laws must be followed. In an emergency, your vehicle may be towed on all four wheels in the following manner:

Fit the towing equipment to one of the towing eyes on the front subframe below the front bumper. Do not attach to the bumpers or brackets.

Place transmission in neutral position and release the park brake.

Switch the ignition key to "ON" position. This will free the steering lock and allow the correct operation of windshield wipers and turn signals.

For the sake of safety and to prevent damage to the vehicle it is advisable to avoid jerky movements and to drive slowly during towing operations.

Remember that power assist for brakes and power steering (where fitted) will not be available when the engine is off.

To prevent the entry of exhaust fumes from the towing vehicle into the passenger compartment of your vehicle, close the windows and stop entry of air by moving heating and ventilation controls to "OFF" position.

Vehicles fitted with automatic transmissions must not be towed for more than 55 kms or at over 55 km/h unless the propeller shaft is removed.

Vehicles with damaged transmissions must not be towed unless the propeller shaft is removed.

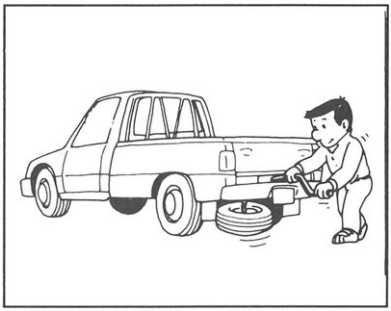
Only the driver should be in a towed vehicle.

Spare wheel

The spare wheel is secured to the rear part of the chassis frame with a chain.

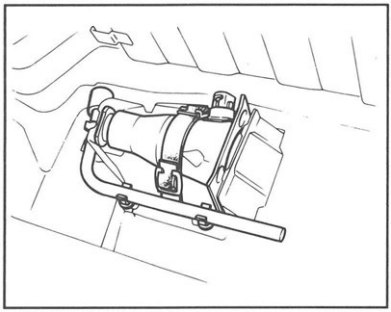
To lower the spare wheel, insert the jack handle into the hole in the rear face of the vehicle to engage the catch and turn the handle anti-clockwise.

To raise, turn the handle clockwise to "stop" and give an additional turn to securely hold the spare wheel in position.



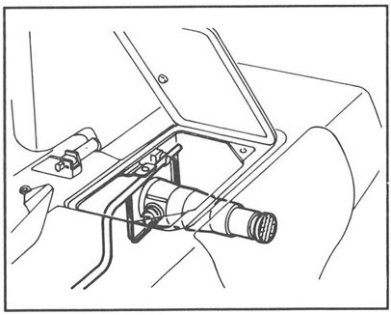
Tools (single cab models)

The jack, and wheel wrench are stored behind the rear of the seat. The jack handle is stored on the back panel.



Tools (crew cab and space cab models)

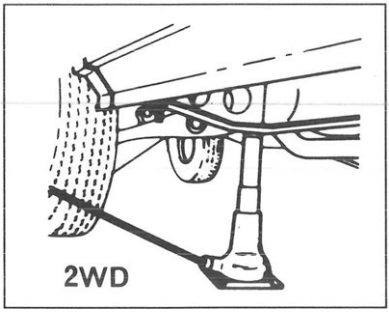
The jack, wheel wrench and jack handle are stored in the compartment at passenger seat side.



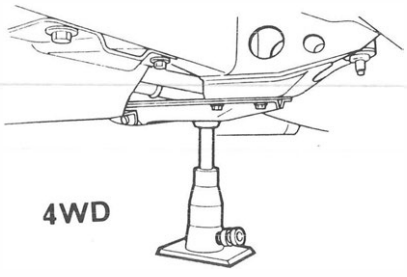
CAUTION:
Use jack only for lifting vehicle when changing wheels.
Never get beneath the vehicle when it is only supported by the jack.
Do not start or run the engine while the vehicle is only supported by the jack.
All passengers should be out of the vehicle when it is being jacked.

1. Park on level surface and set parking brake firmly.
2. Vehicles with automatic transmissions should be placed in PARK, manual transmissions in REVERSE.
3. Remove ignition key.
4. Remove the jack, jack handle, wheel wrench and spare wheel (see previous page).
5. Block the wheel diagonally opposite the jacking position.
6. Loosen, but do not remove, wheel nuts by turning wheel wrench anti-clockwise.
7. Place jack at recommended jacking point.

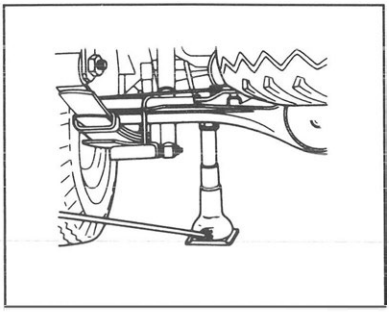
Front 2WD: concave bottom surface of the cab mounting centre bracket.



Front 4WD: under rear engine mounting cross member.



Rear: under the rear axle housing near the wheel.



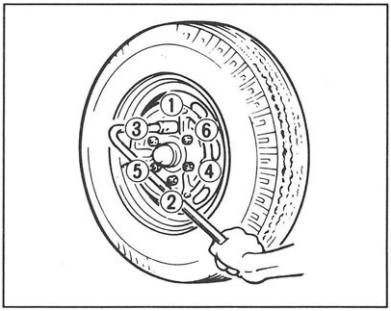
Ensure that the jack is not tilted and that the base is resting squarely on the ground.

CAUTION: Failure to position the jack as described could result in serious personal injury or vehicle damage caused by the vehicle slipping off the jack.

8. Raise the vehicle until the wheel is clear of the ground. Remove the wheel nuts and place (together) in a dry spot to avoid getting dirt in the threads.

9. Remove the wheel from the vehicle and change it over with the spare.

10. Replace centre cap (if so equipped), replace the wheels nuts and tighten by hand. Then, with the wheel wrench, lightly tighten in the sequence shown.



11. Lower the vehicle completely and remove the jack.

12. Fully tighten the wheel nuts with the wheel wrench in the sequence shown above.

13. Stow the jack, jack handle, wheel wrench and flat tyre in the rear of the vehicle, as shown on page 4-4.

CAUTION: As soon as possible after changing a wheel, you should have the wheel nuts tightened with a torque wrench to 90~100 Nm (70~76 ft.lbs).

Wheel nuts should be tightened evenly to the correct torque in the sequence shown as improperly tightened wheel nuts could eventually allow the wheel to come off while the vehicle is moving!

CAUTION: If the engine should overheat, as indicated by the temperature gauge reading or if you suspect there is a serious overheat condition immediate action is required. Continued operation of the engine EVEN FOR A SHORT TIME could result in a fire and the possibility of personal injury and/or severe vehicle damage.

If the coolant temperature gauge needle should move all the way to the "H" position and remain there for more than 30 seconds, pull out of the traffic as soon as it is safe to do so and stop the engine.

Do not open the bonnet if you can see or hear steam or coolant escaping from the engine compartment. Wait until no steam or coolant can be seen or heard before opening the bonnet.

Now open the bonnet and while the engine is cooling, check the fan belt is intact and that it turns when the engine is cranked.

Look for leaks at the radiator hoses and connections, heater hoses and connections, radiator and water pump.

Take care when checking all these areas as they will probably still be hot.

If you find a major leak or find other problems that may have caused the engine to overheat, do not run the engine until these problems have been corrected.

If you do not find anything wrong then you should check the level of coolant in the radiator and surge tank.

CAUTION: Do not remove the radiator and surge tank cap if the engine and radiator are still hot. Scalding fluid and steam can be blown out under pressure which could cause serious personal injury.

When the engine has cooled sufficiently, remove the radiator cap - cover the cap with a thick cloth, and turn slowly anti-clockwise (without pressing down) until it reaches a "stop". This is the pressure relief stop, which will allow any remaining pressure (indicated by a hissing sound) to escape. Then press down on the cap and continue turning it anti-clockwise until it can be removed.

With the radiator cap OFF, top up the surge tank if required, refer page 6-3 if unsure. Remember to ensure surge tank cap is secure after filling. Then, WHILE THE ENGINE IS IDLING, top up the radiator (if required) and replace the radiator cap.

If, after taking one or more of the actions above and once the temperature gauge no longer signals an overheat condition you can resume driving at a reduced speed. Return to normal driving after ten minutes if the temperature gauge does not again show an overheat condition.

If overheating occurs again you should have the vehicle attended to, as soon as possible, by a qualified mechanic.

NOTE: The engine may temporarily operate at high temperature during more demanding operating conditions, especially on very hot days. These conditions include:

climbing a long hill

stopping immediately after high speed driving

idling for long periods in traffic

towing a heavily laden trailer or caravan.

You should avoid operating your vehicle for prolonged periods in any of the above circumstances if the temperature gauge indicates high engine coolant temperature.

Refer to page 6-3 which gives maintenance instructions to help protect your cooling system from overheating.

If your vehicle will not start due to a discharged battery, it can often be started by using energy from another battery - a procedure called "jump starting".

However, if after reading the following procedure you are still unsure about "jump starting" we strongly recommend for your safety and that of your vehicle that you leave the starting to a competent mechanic.

Jump starting

CAUTION: Batteries produce explosive gases, contain corrosive acids and supply levels of electrical current high enough to cause burns. Therefore, to lessen the chance of personal injury when working near a battery:

Do not expose the battery to open flames or sparks. Battery action generates hydrogen gas which is flammable and explosive.

Do not smoke near a battery.

Wear eye protection such as industrial safety glasses and avoid leaning over the battery whenever possible.

Do not allow battery acid to contact eyes or skin. Flush any contacted area with water immediately. In case of eye contact you should get medical help. Battery acid will also damage paintwork and fabrics if not washed off immediately.

Be sure any batteries that have filler caps are properly filled with fluid.

Remove rings, metal watch bands and other metal jewellery before working around the battery.

Carefully follow each step in the jump starting procedures.

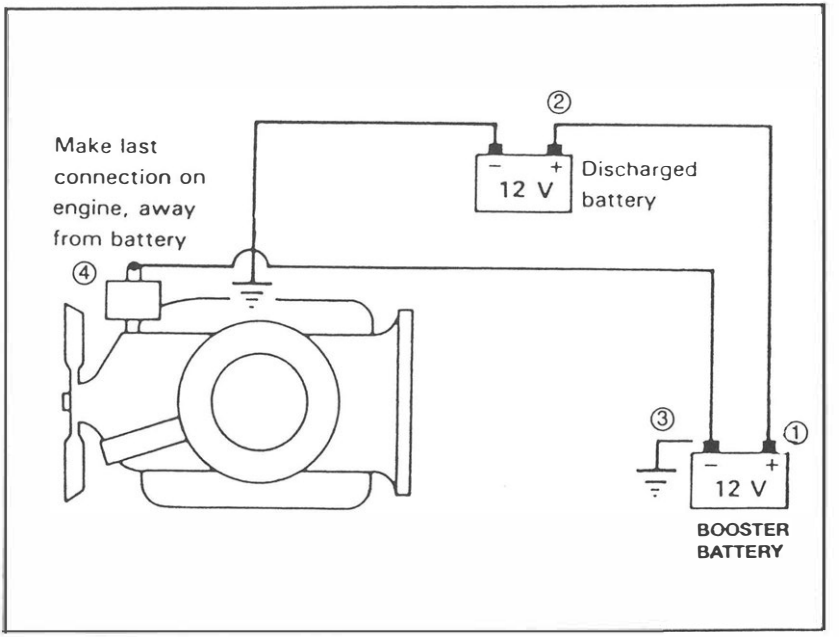
Never use a quick charger to start your engine.

1. The battery of your vehicle has a negative earth and a 12 volt rating. The battery in the other vehicle (that is being used to jump start the flat battery) must be the same voltage and also have a negative earth. So, check the specifications in the other vehicle's owner manual to see if it complies. Serious injury or damage may result if the wrong type of battery is used .

2. Position the two vehicles so that they are NOT touching and apply the park brakes. Automatic transmissions are to be placed in PARK and manual transmissions placed in NEUTRAL. Turn off ignition and all lights and accessories in both vehicles, except the hazard warning flasher or any lights needed for the work area.

3. Attach one end of the first jumper cable (1) to the positive terminal of the other vehicle's battery (identified by a red colour, + or P on the battery case, post or clamp) and the other end of the same cable to the positive terminal of your vehicle's battery (2).

4. Attach one end of the second jumper cable (3) to the negative terminal (identified by a black colour, - or N on the battery case, post or clamp) and the other end to a solid stationary, metallic point on your vehicle's engine (4). DO NOT CONNECT DIRECTLY TO NEGATIVE POST OF VEHICLE'S BATTERY. See below.



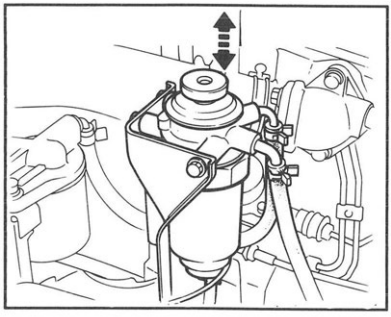
5. When making all connections take care that the clamps from one cable do not inadvertently touch the clamps on the other cable. Also, ensure that jumper cables are not on or near pulleys, fans or other points that will move when the engine is started.

6. Start the engine in the other vehicle and run the engine at a moderate speed. Then start the engine in your vehicle.

7. When the engine starts, leave it running as you remove the jumper cables by reversing the above sequence exactly. While removing each clamp, take care that it does not touch any other metal while the other end remains attached.

The fuel filter has a sedimentor chamber for settling water separated from fuel. If the indicator glows on the instrument panel (refer page 1-4) the water in the sedimentor chamber must be drained.

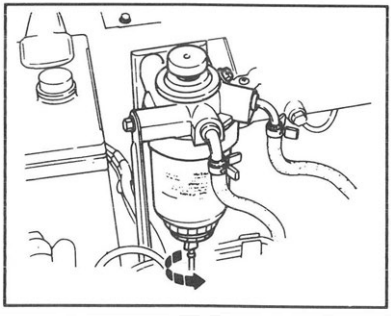
Open the bonnet and place a small container (approximately 0.2 litre capacity) at the end of the vinyl hose beneath the drain plug on the separator.



Loosen the drain plug by turning it anti-clockwise (approximately five turns) and operate the manual pump up and down (about 10 times) until 0.1 litres of water has been drained.

After draining, securely tighten the drain plug by turning it clockwise and operate the manual pump up and down several times.

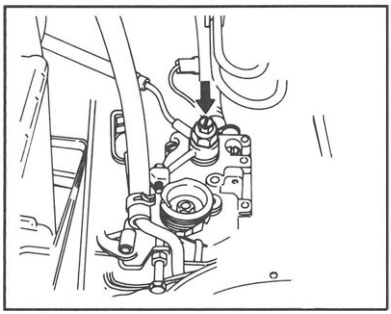
After starting the engine, check to see that no fuel leaks from the drain plug. Also check to see that the indicator light has turned off.



If the water separator requires frequent draining, have the fuel tank drained for removal of water at your Holden Dealer.

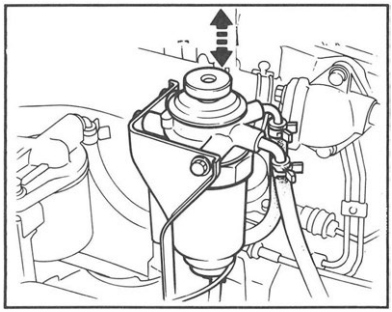
If the fuel tank has been emptied, the chance is that air might have entered the fuel system. With air in the fuel system, smooth flow of fuel into the engine is interrupted and to correct this, bleeding of the fuel system should be performed after refuelling.

With a spanner or screwdriver, loosen the bleeder screw on the overflow valve of the injection pump.



Operate the priming pump (as shown) up and down until fuel comes out of the bleeder screw. Continue pumping until no more air bubbles appear in the fuel being pumped out.

After bleeding, securely tighten the bleeder screw and then operate the priming pump up and down several times.



Chapter 5
Warranty

Page

5-1 - New Vehicle Warranty
5-3 - Common Warranty Questions & Answers
5-6 - Customer Assistance

Authorised Holden Dealers

5-7 - New South Wales
5-9 - Australian Capital Territory
5-10 - Victoria
5-11 - Tasmania
5-12 - Queensland
5-13 - Northern Territory
5-14 - South Australia
5-15 - Western Australia

Note: Dealership names and addresses are correct at time of printing. They may change from time to time without notice.

HOLDEN'S MOTOR COMPANY

NEW VEHICLE WARRANTY

HOLDEN'S MOTOR COMPANY, HEREINAFTER HOLDENS, WARRANTS THAT IT WILL MAKE GOOD WITHOUT CHARGE, ANY DEFECT WHICH APPEARS IN THE VEHICLE IDENTIFIED ON THE IDENTIFICATION CERTIFICATE FOUND ON THE INSIDE OF THE FRONT COVER.

Provided

1. the defect has been notified to an authorised Holden Dealer or Service Dealer:
   (a) before the vehicle has travelled a distance of 20,000 km or,
   (b) within 12 months of the date of delivery of the vehicle to the first retail purchaser (or in the case of a demonstrator vehicle within 12 months of the date when is was first placed into service by the Dealer)

   whichever comes first, and

2. the vehicle has been returned to an authorised Holden Dealer or Service Dealer

and

3. the Dealer has determined that the defect complained of is one of workmanship and *is not* caused by

   (a) misuse or abuse of the vehicle such as by racing, rallying, overloading, etc., or by neglect
   (b) operation of the vehicle after it is known to be defective
   (c) accident or deliberate act
   (d) atmospheric fallout or flood, hail, salt, etc.
   (e) failure to carry out proper maintenance service
   (f) use of incorrect types and grades of fuel, oil or lubricants
   (g) alteration or modification of the vehicle by any party not authorised by Holden's
   (h) the fitting of parts or accessories not marketed by Holden's Motor Company
   (i) any work carried out on the vehicle by someone other than an authorised Holden Dealer or Service Dealer,

BY THE DEALER (or as otherwise decided by Holden's) MAKING GOOD THE DEFECT BY REPAIR OR, AT THE OPTION OF HOLDEN'S, BY REPLACEMENT.

Excluded from this Warranty are

* defects in tyres (these being warranted by their manufactures), and services such as engine tuning, brake adjustment, replacement of air and oil filter, wiper rubbers, etc. which are required as part of normal vehicle maintenance.

This Warranty applies only to vehicles operated in Australia and is given to the person who is entitled to possession of the vehicle whether as owner, lessee or otherwise and is given in addition to all right conferred by law on that person.

Owners of vehicles operated outside Australia should consult their local dealer regarding the warranty applicable to their vehicles.

AVAILABILITY OF SERVICE AND PARTS AFTER WARRANTY

Holden's Motor Company has franchised dealers in many parts of Australia for the sale of service parts and the provision of service to owners of Holden's products. Every endeavour is made to ensure that such dealers carry adequate stocks of service parts and are equipped to provide satisfactory service, but Holden's Motor Company does not make any promise that after the expiration of the warranty such parts or service facilities will be available, or available at any specific location or at any particular time.

UNAUTHORISED STATEMENTS IN RELATION TO HOLDEN'S PRODUCTS

No Holden dealer or other person is authorised or permitted to give or make any statement assertion or undertaking in relation to the quality, performance, characteristics, descriptions or fitness for any purpose of any Holden's product or in connection with the supply of any Holden's product, which is at variance with any written statement assertion or undertaking on any of these subjects given or made by Holden's Motor Company in its published sales literature, and the Company does not accept any such unauthorised action.

WARRANTY ON HOLDEN'S REPLACEMENT PARTS

Holden's Motor Company warrants in respect of Holden's parts and accessories required as replacement parts, that it will make good by repair or at its option by replacement any defect occurring in any such Holden's parts and accessories within 12 months from the date of acquisition or in the case of a Holden's part or accessory which has been installed in a vehicle by a Holden Dealer or Service Dealer before such vehicle has travelled a distance of 20,000 kms from the date of installation, whichever first occurs.

This section is designed to assist you in understanding the terms of the Holden's Warranty provided with your new vehicle.

The following are some of the most frequently asked questions for which detailed answers have been provided.

1. Q. How do I go about obtaining Holden's Warranty Service?

A. It is the responsibility of the Selling Dealer to provide Holden's Warranty Service, therefore you should take your vehicle to that Dealer whenever Holden's Warranty Service is required. However, if this is not possible, you may go to any other Authorised Holden Dealer. The details recorded inside the front cover of this handbook are required by the Dealer whenever you request Holden's Warranty Service.

Note that the 1,000 kilometre Warranty Service may be carried out by and Holden Dealer, provided you have a letter of introduction from the Selling Dealer. This letter must be arranged prior to obtaining the 1,000 kilometre service.

2. Q. What should I do if, in an emergency, Holden's Warranty Service is required and an Authorised Holden Dealer is not available to provide such service at the time?

A. If, in an emergency, a repair, replacement or adjustment (covered by the Holden's New Vehicle Warranty) is required to enable your vehicle to be operated safely and it is not practical for you to have that service performed by an Authorised Holden Dealer, the service (to the extent that it is necessary to enable your vehicle to be operated safely) may be performed by any other qualified service technician or repairer. A claim for the reasonable cost may be made through the Authorised Holden Dealer who would normally provide you with Holden's Warranty Service. You must also take your vehicle to the Authorised Holden Dealer for inspection of the service and/or completion of any required Holden's Warranty Service as soon as possible.

3. Q. What should I do if my vehicle becomes unsafe or inoperative as a result of a defect which is covered by the Holden's New Vehicle Warranty?

A. You should contact the nearest Authorised Holden Dealer as soon as possible and arrange for that Dealer to carry out the required Holden's Warranty Service.

4. Q. Will I have to pay for any costs or expenses in connection with the provision of Holden's Warranty Service?

A. All parts and labour used in carrying out Holden's Warranty Service at the premises of the Servicing Dealer are free of charge. Whenever Holden's Warranty Service is to be carried out by the Servicing Dealer it is your responsibility to deliver your vehicle to the Servicing Dealer's premises.

If, as a result of a defect which is covered by the Holden's New Vehicle Warranty, your vehicle cannot be driven safely and you arrange for the nearest Authorised Holden Dealer to carry out the required Holden's Warranty Service, Holden's will accept reasonable towing costs to move your vehicle to the nearest Holden Dealer's premises. Before employing a towing company, contact the nearest Holdens Dealer and/or Holden's Customer Assistance (refer page 5-6) to obtain guidance.

5. Q. Are damage or injury, loss of time, inconvenience, commercial or other direct or indirect loss covered by the Holden's New Vehicle Warranty?

A. No, these items are not covered. The Holden's New Vehicle warranty only covers the repair, replacement or adjustment of those parts of your vehicle which are found to be defective in materials or workmanship, No other types of claim for compensation of any kind, even if the same resulted from a consequence of a defect in materials or workmanship in your vehicle will be recognised under the Holden's New Vehicle Warranty. The rights and remedies which are available to you under any relevant Statutory Enactment or otherwise, at law, in connection with any such claim for compensation, you must pursue outside the ambit of the Holden's New Vehicle Warranty.

6. Q. Will I have to pay for maintenance costs during the Warranty Period?

A. Maintenance costs are not covered by the Holden's New Vehicle Warranty. However, the scheduled 1,000 kilometre service specified in chapter 8 of the handbook is free of charge (except for any lubricants used), provided that your vehicle has been operated under normal operating conditions (refer page 8-2) and provided also that no modifications (other than a modification made by or at the direction of Holden's) has been made to your vehicle. The Maintenance Schedules in this handbook specify the minimum maintenance required for your vehicle operating under normal conditions.

The Maintenance items, except where they are required as a result of defects in materials or workmanship, for which you will be required to pay include:-

* Engine tune-up; including replacing spark plugs.
* Replacement of all filters.
* Cleaning or flushing of fuel, coolant, brake, engine, transmission, differential, power steering etc., after the 1,000 kilometre service.
* Adding to or replacing lubricants.
* Adding to or replacing air conditioning refrigerant,
* Any necessary adjustments to drive belts, transmissions, clutch, park brake etc.
* Wheel balancing - after 5,000 kilometres.
* Wheel alignment
* De-dusting or de-glazing of brake linings or pads - after the 1,000 kilometre service.
* Brake lining wear or damage
* Brake disc pad or disc wear
* Battery re-charging
* Paint, bright metal finish and trim, due to normal deterioration.
* Body panel adjustment - after the 1,000 kilometre service.
* Door, or bonnet lock adjustments.
* Glass or channel adjustments - after the 1,000 kilomtre service.
* Body rattle, squeaks and general tightening of bolts, fastenings and fittings - after the 1,000 kilometre service.
* Chipped glass or breakage.
* Torn or damaged floor mats or carpets.

7. Q. Are my tyres covered by the Holden's New Vehicle Warranty?

A. No. The tyres fitted to your vehicle are covered by a separate warranty provided by the tyre manufacturer. An Authorised Holden Dealer will assist you by discussing any queries which you might have with respect to the tyre manufacturer's warranty with the tyre manufacturer's representative.

8. Q. Are Holden's parts and accessories covered by warranties?

A. If you purchase a Holden's part or accessory from an Authorised Holden Dealer it will by warranted by that Dealer under the Holden's parts and accessories Warranty against defects in materials or workmanship for a period of 12 months from the date at which you purchased it. In the case of a Holden's part or accessory which has been installed in a vehicle by a Holden Dealer or a Service Dealer it will be warranted for a period of 12 months or a distance of 20,000 kms from the date of installation, whichever occurs first.

Maintenance items such as filters, spark plugs, wiper blades and brake pads/linings will require replacement as part of normal maintenance. Such replacements are not the subject of this warranty.

We want you to be happy with your new vehicle together with the people you deal with while you have the vehicle.

Normally, any problems which may arise with the sales transaction, operation or servicing of your vehicle will be handled by your Dealer's Sales and Service Department.

We realise however, that, with the best intentions, misunderstandings do occur sometimes.

Accordingly, we suggest you discuss any concern with one of the Dealer's management people. If you haven't received satisfaction from the Sales Manager or Service Manager - go to the General Manager or to the Dealer himself.

By now you should have satisfaction. If not, you have the facility of the Holden's Customer Assistance Service office at your disposal. The Holden's Customer Assistance representatives can by telephoned from anywhere within Australia for only the cost of a local call. The Melbourne area number is 646 5466. Outside the Melbourne Metropolitian area, the number is 008 03 3349.

If your concern relates to parts/accessories and you have made contact with the Dealer or Distributor without satisfaction, you may contact Holden's Service Parts Operations on (03) 797 7341

Naturally, telephoning is the quickest and the best way of contact. However, if you prefer to write the address is:

The Manager
Holden's Customer Assistance Services
GPO Box 548D
Melbourne, 3001.

Your letter should clearly outline your concern or query, and include the following:

* Your name and address
* Telephone numbers, both private & Business
* Servicing dealership name and address
* Vehicle model
* Vehicle identification number (VIN)
* Date of purchase
* Current odometer reading

Most of this information will be found on the Vehicle Identification Certificate, located inside the front cover of this handbook.

Before you write however, remember that the telephone is the quicker and more efficient means of communication.

N.S.W. Metropolitan

ARNCLIFFE **Suttons Motors (Arncliffe) Pty Ltd** - 93 Princes Highway
ASHFIELD **Muirs Motors (Ashfield) Pty Ltd** - 252 Parramatta Road
BALGOWLAH **Mitchell Cox Holden** - 164 Condamine Street
BAULKHAM HILLS **Tony Packard Holden** - Cnr Victoria Ave & Windsor Rd
BLACKTOWN **West City Holden** - 120~128 Sunnyholt Road
CAMPBELLTOWN **Paul Wakeling Holden** - Cnr Blaxland & Campbelltown Rds
CHULLORA **Suttons Motors (Chullora) Pty Ltd** - Cnr Hume Hwy & Waterloo Road
CROWS NEST **J.N. Caldwell (Holdings) Pty Ltd** - 1 Alexander Street
DEE WHY **Barry Smith Holden** - Cnr May & Mooramba Roads
GORDON **Sundell Holden** - 836 Pacific Hwy & McIntyre Street
HOMEBUSH **Suttons Motors (Homebush) Pty Ltd** - 112 Parramatta Road
HOMEBUSH **Gilbert & Roach Pty Ltd** - 167~173 Parramatta Road
KINGSFORD **John Pellegrini Holden** - 263~271 Anzac Parade
LAKEMBA **Nash Holden** - 1018 Canterbury Road
LIVERPOOL **A.C. McGrath & Co Pty Ltd** - Cnr Castlereagh St & Hume Hwy
MIRANDA **Greg Ball Holden** - 1~3 Kiora Road
NEWPORT **Mobil-Newport** - Cnr Barrenjoey Rd & Seaview Ave
PADSTOW **Purnell Bros Holden** - 19 Davies Road
PARRAMATTA **Boyded Parramatta** - 65 Church Street
PENNANT HILLS **Les Vagg Holden** - 351~355 Pennant Hills Road
PENRITH **Lance Motors (Penrith) Pty Ltd** - 39~47 Henry Street
ROCKDALE **Boyded Rockdale** - 571 Princes Hwy
RYDE **Hunter Holden** - 603~605 Victoria Road
ST. MARY'S **Lance Motors Pty Ltd** - Cnr Glossop & Harris Streets
WAITARA **Suttons Motors** - 90 Pacific Hwy
WARRAWONG **Dwyers Warrawong** - King Street
WINDSOR **Erichsen Motors** - 122 George Street

N.S.W. Country

ADELONG **Robert Broadhurst Holden** - Tumut Street
ALBURY **Preston Motors Albury** - 647~657 Dean Street
ARDLETHAN **Carr's Engineering** - 4 Mirrool Street
ARMIDALE **New State Motors** - 103 Rusden Street
BALLINA **Quayside Motors** - Pacific Highway
BARHAM **Hall's Motors Pty Ltd** - 44 Noorong Street
BATHURST **Bathurst Motors Pty Ltd** - 54 Durham Street
BEGA **Norm Honey Motors** - 247 Carp Street
BELLINGEN **E.H.H. Raymond Pty Ltd** - Broadway
BELMONT **Challenge Holden** - 444 Pacific Highway
BLAYNEY **Mitchell Holden** - 98 Adelaide Street
BOMBALA **Delcott Engineering Pty Ltd** -Maybe Street
BOURKE **Bowden & Co (Bourke Pty Ltd)** - Richard Street
BOWRAL **Emile Wheeler Holden** - 380 Bong Bong Street
BREWARRINA **Hertslet Holden** - Bathurst Street
BROKEN HILL **Donlee Motors Pty Ltd** - Cnr Galena & Raklow Streets
CANOWINDRA **Canowindra Motors** - Gaskill Street
CARDIFF **Brian Kelly Holden** 35~39 MacQuarie Road
CASINO **McKinnon Holden** - 142 Barker Street
CESSNOCK **Geoff Boyd Holden** - 173~175 Wollombi Road
COBAR **Cobar Motors Pty Ltd** - Barton Street
COFF'S HARBOUR **Geoff King Holden** Cnr Pacific Hwy & Thompson Rd
COLLARENEBRI **Bruce's Garage & Service Station** - Wilson Street
COOLAMON **Coolamon Motors** - Cowabbie Street
COOMA **Urquhart & Nicholson Motors Pty Ltd** - 66~70 Sharp Street
COONABARABRAN **Alan McWhirter Holden** - John Street
COONAMBLE **Moody's Motors** - Aberford Street
COOTAMUNDRA **Jenkins Garage** - 111 Wallendoon Street
COROWA **R.W.E. Fraser & Co** - 218 Honour Avenue
COWRA **Waugoola Motors Pty Ltd** - Kendal Street

N.S.W. Country cont.

CROOKWELL **Crookwell Autos** -114 Goulburn Street
DENILIQUIN **Burchfield Bros & Co** -112~114 End Street
DORRIGO **Phil Noble Motors** - 46~48 Hickory Street
DUBBO **Graeme Coxon Holden** - Cnr Darling & Bultje Streets
EDEN **Ron Doyle** -113 Imlay Street
FINLEY **Riverina Garage Finley** -104 Murray Street
FORBES **Paddison & Co** - Cnr Rankin St & Court Land
GILGANDRA **Whitemans Holden** -106 Warren Road
GLEN INNES **Kingdom & Graham Motors** - 167 Grey Street
GLOUCESTER **Grahame's Garage Pty Ltd** -1 Park Street
GOSFORD **Noble Holden** - Pacific Highway
GOULBURN **Geissler Motors** - 279~298 Auburn Street
GRAFTON SOUTH **Nev Devir Holden** - 71~ 75 Spring Street
GRENFELL **Terry Carroll Motors Pty Ltd** - 40 Alexandra Street
GRIFFITH **Auswild's** -152 Yambil Street
GULARGAMBONE **Gulargambone Motors** - Bourbah Street
GUNDAGAI **McPherson Motors Pty Ltd** - Sheridan Street
GUNNEDAH **Namoi Valley Motors** - 48 Barber Street
GUNNING **Bailey's Garage Pty Ltd** - Yass Street
GUYRA **Burgess Garage Pty Ltd** - 131~143 Bradley Street
HARDEN **Ginty & O'Leary** - Cnr Station & Albury Streets
HAY **Royce Curtis Motors** - 168 Lachlan Street
HOLBROOK **Lieschke Motors Pty Ltd** - Albury Street
INVERELL **Gaukroger Sales Pty Ltd** - Vivian Street
JERILDERIE **Jerilderie Motors** - Jerilderie Street
JUNEE **Junee Motors** - Seignior Street
KANDOS **Chrisfield Holden** - 11 Angus Street
KATOOMBA **Arthur Brown Holden** - 136 Great Western Hwy
KEMPSEY **Thoroughgood Motors** - 118~132 Belgrave Street
KIAMA **Glen Fulton Holden** - 35~41 Collins Street
KURRI KURRI **Fren's Holden** - 281 Lang Street
KYOGLE **O & A Holden** - 128~134 Summerland Way
LEETON **John Ryan Holden** - 47 Pine Street
LISMORE **John Chant Motors Pty Ltd** - 21~27 Carrington Street
LITHGOW **Lithgow Motors** - 255 Main Street
MACKSVILLE **Eastland Auto Centre** - 18~22 Cooper Street
MACLEAN **O'Halloran Motors** - 175 River Street
MAITLAND **R.H. Taylor Holden** - 557~567 High Street
MOREE **Keith Haddad Holden** - Cnr Boston & Herber Streets
MORUYA **Surfair Holden** - 88 Vulcan Street
MULLUMBIMBY **Tony Carsburg Holden** - 2 Argyle Street
MURWILLUMBAH **Turner Holden** - 29 Prospero Street
MUSWELLBROOK **Upper Hunter Motors Pty Ltd** - 116 Bridge Street
NARRABRI **Allan Cooper Holden** - 181 Maitland Street
NARRANDERA **C. & S. Coelli** - 7 King Street
NARROMINE **L.E. Stanley Pty Ltd** - Dandaloo Street
NEWCASTLE **Young & Green Pty Ltd** - 745 Hunter Street
NOWRA **Glendon Motors** - 301~313 Princes Highway
NYGAN **Nygan Motors** - 63 Pangee Street
ORANGE **Canobolas Holden** - 348 Summer Street
PARKES **Go Motors** - Cnr Mitchell & Clarinda Streets
PEAK HILL **S.Leary & Sons Pty Ltd** - Mingelo Street
PORT MACQUARIE **Todd Holden** - 16~20 Clarence Street
QUIRINDI **Browning Motors** - 82 Henry Street
SCONE **Upper Hunter Motors (Scone)** - 91 Kelly Street
SINGLETON **Lancaster Holden** - 80 John Street
SPRINGWOOD **Kerry's Motors Pty Ltd** - 28 Great Western Highway
TAMWORTH **Kensells Holden** - Cnr Bourke St & Kable Ave
TAREE **Hardes Auto House** - 61 Manning Street
TEMORA **Rod Lovering Holden** - 2 Stockinbingal Road

N.S.W. Country cont.

TENTERFIELD **Sexton & Green (Sales & Service) Pty Ltd** -148 Rouse Street
TORONTO **Young & Green (Toronto) Pty Ltd** - Carey Street
TUMBARUMBA **Broadhurst Autos** - Albury Street
TUMUT **Tumut Auto Sales & Service Pty Ltd** - Fitzroy Street
ULLADULLA **Auto Diesel Co Pty Ltd** - 150 Princes Highway
TWEED HEADS **Tweed Motors Pty Ltd** - 25 Tweed Street
WAGGA **Wagga Motors Pty Ltd** - 32 Dobney Avenue
WALCHA **Bowden's Garage Pty Ltd** - Derby Street
WALGETT **Walgett Garage Pty Ltd** - Wee Waa Street
WALLA WALLA **D.E. Lieschke & Son Pty Ltd** - Commercial Street
WARIALDA **Roger Moore** - Hope Street
WARILLA **Wilson's Warilla Pty Ltd** - 29 Shellharbour Road
WARREN **Fuller Bros** - Dubbo Street
WELLINGTON **Gersbach's Garage Pty Ltd** - 92 Lee Street
WEST WYALONG **West Wyalong Motors** - 183 Main Street
WOLLONGONG **Dwyers Pty Ltd** - 31~33 Crown Street
WOODENBONG **Frawley Bros Holden** - Unumgar Street
WYONG **W.M. Holden** - Pacific Highway
YASS **Bill Nesbitt Holden** - 221 Comur Street
YOUNG **Harden & Geelan Holden** - 48 Boorowa Street

A.C.T.

BELCONNEN **Gerald Slaven Holden** - Josephson Street
BRADDON **Beazley & Bruce** - 44 Mort Street
PHILLIP **Commonwealth Motors Pty Ltd** - 158 Melrose Drive

Vic. Metropolitian

BERWICK **Barry Bourke Holden** - 755 Princes Highway
BRAYBROOK **Kevin Dennis Holden** - 272 Ballarat Road
BUNDOORA **Watson Holden** - 413 Grimshaw Street
BURWOOD **Penfold Holden** - 63 Burwood Road
CAULFIELD **Booran Holden** - 1049 Glenhuntly Road
CHELSEA **Harrison Holden** - 370 Nepean Highway
CHELTENHAM **Balmoral Holden** - 1212 Nepean Highway
DANDENONG **Graeme Blanchard Holden** - Princes Highway
ELSTERNWICK **Reg Hunt Holden** - 77 Nepean Highway
ESSENDON **Preston Motors (Essendon) Pty Ltd** - 205~211 Keilor Road
FAWKNER **Mantello Holden** - 1263 Sydney Road
FERNTREE GULLY **Neilson Holden F.T.G.** - 980 Burwood Highway
FOOTSCRAY **Alan Mance Holden** - 435 Barkly Street
FRANKSTON **Noel Gould Holden** - 140 Dandenong Road
GEELONG **R & B Smith Holden** - 510 Moorabool Street
GEELONG **Winter & Taylor (Sales) Pty Ltd** - 23 Cavendish Street
GLEN WAVERLEY **Geoff Brady Holden** - 565~577 Springvale Road
HASTINGS **Westernport Holden** - 843 Frankston~Flinders Road
LILYDALE **Noel Dight Holden** - 344 Main Street
MORNINGTON **Peninsula Holden** - 976 Nepean Highway
OAKLEIGH **Garry & Warren Smith** - 1575 Dandenong Road
RINGWOOD **Patterson Cheney Holden** - 45~57 Maroondah Highway
SOUTH MELBOURNE **Patterson Cheney Holden** - 132 Sturt Street
WERRIBEE **Ballan Holden** - Princes Highway
WEST MELBOURNE **Reg Hunt Holden** - 577 King Street

Vic. Country

ARARAT **David Reid Motors** - High Street
BAIRNSDALE **The Big Garage** - 199 Main Street
BALLARAT **Peter Amor Motors** - 6~16 Mair Street East
BENALLA **Arnott's Motors** - 88~90 Bridge Street
BENDIGO **Ron Poyser Holden** - Cnr High & Myrtle Streets
BIRCHIP **R.L. & C.J. Bales** - 38 Cumming Avenue
BOORT **Jaron Motors** - 55 Godfrey Street
CAMPERDOWN **Alan Rogers Holden** - 114~116 Manifold Street
CASTERTON **Coxons of Casterton** - 139 Henty Street
CASTLEMAINE **Ron Poyser Castlemaine** - Barker Street
CHARLTON **K.V. Charlton** - 70 High Street
COBRAM **Frank D'Alberto Holden** - 56~60 Punt Road
COHUNA **Humphrey Motors Pty Ltd** - 13~15 Market Street
COLAC **Parker Bros Motors Co** - 224 Murray Street
COLERAINE **Coleraine Auto Repairs** - Whyte Street
CORRYONG **Middleton Motors Pty Ltd** - Hanson Street
DAYLESFORD **K.R. Little Pty Ltd** - Vincent Street
DERRINALLUM **Urquhart Motors** - Main Street
DIMBOOLA **Westerfield Motors Pty Ltd** - 64 Lloyd Street
DONALD **O.A. Shilton & Sons Pty Ltd** - Wood Street
ECHUCA **Echuca Motors** - 148 Murray Valley Highway
EUROA **Croxford Holden** - 41 Clifton Street
FOSTER **Ray Dower Motors** - 78 Main Street
HAMILTON **Slorach Autos Pty Ltd** -261 Grey Street
HOPETOUN **Hopetoun Motors** - Lascellas Street
HORSHAM **Ranley Holden** - 22 O'Callaghans Parade

Vic. Country cont.

KANIVA **Kaniva Motors** - 82 Commercial Street
KERANG **Hall & Sons (Kerang) Pty Ltd** - 86 Wellington Street
KOOWEERUP **Gray Blakey Holden** - Station Street
KORUMBURRA **Graham Wallace Holden** - 42 Commercial Street
KYABRAM **D'Alberto Holden** - 60 McEwen Road
KYNETON **Mollison Motors Pty Ltd** - 167 Mollison Street
LEONGATHA **Gleeson Holden** - 37~43 Bair Street
MAFFRA **Knight Paterson Holden** - Johnson Street
MANSFIELD **Agpower Holden** - High Street
MARYBOROUGH **Graham Jacka Holden** - 35 Nolan Street
MILDURA **Stuart & Harrison (Sales) Pty Ltd** - 24~32 Deakin Avenue
MINYIP **Munro Sales & Service** - 8 Market Street
MIRBOO NORTH **Ridgeway Motors** - 106 Ridgeway Road
MOE **Derek Scully Holden** - Anzac Street
MORTLAKE **W. Christian (Mortlake) Pty Ltd** - 107 Dunlop Street
MURRAYVILLE **Peers Motors** - McKenzie Street
NATHALIA **BHB Motors** - 6 Blake Street
NHILL **Ivan Morrow Motors Pty Ltd** - 71~73 Nelson Street
NULLAWIL **Nullawil Motors & General Engineers** - Calder Highway
ORBOST **Merlin Motors** - Stanley Street
PORTLAND **Reynolds Holden** - 15~17 Richmond Street
QUAMBATOOK **Quambatook Auto Services** - Gutherie Street
ROCHESTER **Bruce Hocking Motors Pty Ltd** - 71 Moore Street
RUTHERGLEN **Jasper Bros Pty Ltd** - Main Street
SALE **Sturgess Smith Holden** - 232~240 York Street
SEA LAKE **Paddy Smith Holden** - Calder Highway
SEYMOUR **R.N. & J.R. Beer Pty Ltd** - 49 Emily Street
SHEPPARTON **Parker Bros Auto Co** - Melbourne Road
STAWELL **David Reid Holden** - 71~73 Main Street
ST. ARNAUD **Maurie McGrath Motors** - 126 Napier Street
SWAN HILL **Nyah Motors** - 59~61 Nyah Road
TALLANGATTA **Crispin Motors** - 21 Towong Street
TIMBOON **Timboon Motors** - Bailey Street
TRARALGON **Colin Watson Holden** - Princes Highway
UNDERBOOL **A.J. Gloster & Sons** - Cotter Street
WANGARATTA **Alan Capp (New Cars) Pty Ltd** - Tone Road
WARBURTON **Col McKenzie Warburton Pty Ltd** - Main Street
WARRACKNABEAL **Amor Motors Aubrey Truck Sales** - Woolcock Street
WARRAGUL **John Carter Holden** - 47 Queen Street
WARRNAMBOOL **Callaghan Motors Pty Ltd** - 133~137 Fairy Street
WODONGA **McRae Holden** - Cnr Hume Highway & Melrose Avenue
WONTHAGGI **J.P. Holden** - 2 Murray Street
YARRAM Graham Helleren Motors Pty Ltd - Bland Street
YARRAWONGA **Pigdons Pty Ltd** - Belmore Street

Tas.

BURNIE **Motors Burnie** - 84~89 Marine Terrace
DEVONPORT **Motors Devonport** - Victoria Parade
HOBART **Motors Pty Ltd** - 179 MacQuarie Street
KING ISLAND **King Island Motors Pty Ltd** - Netherby Road, Currie
LAUNCESTON **Motors Launceston** - Elizabeth Street
SMITHTON **Motors Pty Ltd** - 116 Nelson Road
ULVERSTONE **Motors Pty Ltd** - 99 Reibey Street

Qld. Metropolitian

ALBION **Bill Harrison Car Sales** - Frodsham Street & Crosby Road
ASPLEY **Zupps (Aspley)** -1442 Gympie Road
BEENLEIGH **Crest Holden** - 81~83 Logan River Road
CLEVELAND **Brian Trebble Motors** - 6 Wellington Street
INDOOROOPILLY **Centenary Holden** - 440 Moggill Road
IPSWICH **Zupps Holden** - 246 Brisbane Road, Booval
MOOROOKA **John Sivyer Holden** - 1060 Ipswich Road
MT. GRAVATT **Zupps Motors Pty Ltd** - 1310 Logan Road
NEWSTEAD **Eagers Retail Pty Ltd** - 95 Breakfast Creek Road
NUNDAH **Eagers (Northside)** - 1319 Sandgate Road
PETRIE **North Pine Motors** - Gympie Road
REDCLIFFE **Village Holden** - 425 Elizabeth Road
SPRINGWOOD **Motorama Holden** - Pacific Highway & Brennan Street
WINDSOR **Leach Holden** - 143 Newmarket Road
WOOLLOONGABBA **Armstrong Holden** - 73 Ipswich Road
WYNNUM **Doug Barton Holden** - 200 Tingal Road

Qld. Country

ATHERTON **Redding Motors Pty Ltd** - 2 Cook Street
AUGATHELLA **Augathella Motors** - Main Street
AYR **Honeycombes Sales & Service** - 115~119 Railway Street
BEAUDESERT **Lee Holden** - 57 Brisbane Road
BEEWAH **Beewah Motors Pty Ltd** - Beewah Parade
BILOELA **David Horton Motors** - 41~43 Dawson Highway
BLACKWATER **B.P. Tyre Power** - Capricorn Highway
BOWEN **Lloyd Brothers** - 47 Leichardt Street
BUNDABERG **Stewarts Motor City** - Takalvan Street
CABOOLTURE **Peter Nott Holden** - Bribie Island Road
CAIRNS **Ireland Holden** - 227~233 Mulgrave Road
CALOUNDRA **Drinnan Holden** - Caloundra Road
CAPELLA **S.A. Rickett & Co** - Peak Downs Street
CHARLEVILLE **Alan Dobbin Holden** - 129 Alfred Street
CHARTERS TOWERS **Peters Holden** - 57 Mosman Street
CHINCHILLA **Ainsworth Motors & Machinery Pty Ltd** - 55 Chinchilla Street
CLONCURRY **Cloncurry Motors** - 59 Scarr Street
CROWS NEST **Dennis Nissen Motors** - 14 William Street
CUNNAMULLA **South West Autos** - 25 John Street
DALBY **Johnson's Holden** - 36 Drayton Street
EMERALD **Leahy Motors** - Clermont Street
GATTON **Gatton Auto Centre** - 67 Railway Street
GAYNDAH **Gayndah Motors** - Capper Street
GLADSTONE **Anderson Motors (Gladstone) Pty Ltd** - 56 Yaroon Street
GOONDIWINDI **Border Holden** - Cnr Albert & Russell Streets
GYMPIE **Madills** - 35 Mellor Street
INGHAM **Origlasso Motors** - 99 Lannercost Street
INNISFAIL **I.C. Taylor Pty Ltd** - 117 Edith Street
JULIA CREEK **Julia Creek Motors Pty Ltd** - Burke Street
KILCOY **Hobart's Garage** - 58 Mary Street
KINGAROY **John Dundas Pty Ltd** - 38 King Street
LAIDLEY **Buhse's Garage Pty Ltd** - 5 Spicer Street
LONGREACH **Longreach Motors** - 33 Swan Street
MACKAY **Pioneer Holden** - Cnr Gordon & Wellington Streets
MACKAY **James Crocker & Sons Pty Ltd** - 17 Wellington Street
MAREEBA **Borman Motors Pty Ltd** - 76 Byrne Street
MAROOCHYDORE SOUTH **Sunco Holden** - Wises Road
MARYBOROUGH **Whitaker Holden** - 109~111 March Street
MITCHELL **Eastern Sales & Service** - 155 Alice Street

Qld. Country cont.

MORANBAH **Ampol Belyando** - Cnr Belyando Ave & Bacon Street
MONTO **Mac's Parts & Service Pty Ltd** - Cnr Lister & Kelvin Streets
MOUNT. ISA **Barkly Motors Pty Ltd** - Marian Street
MOURA **Moura Steering & Brake Service** - Theodore Road
MURGON **Clifton Motors** - McAllister Street
NAMBOUR **Kallenbach Motors** - 139 Howard Street
NANANGO **Nanango Motors Pty Ltd** - 72~74 Drayton Street
NOOSA HEADS **Gilbert Motors Pty Ltd** - Cnr Cooroy Noosa Rd & Coral Tree
PROSERPINE **Crossley Car Whitsunday Pty Ltd** - 162~164 Main Street
QUILPIE **Quality Motors** - Boonkai Street
ROCKHAMPTON **Lawrence's** - 327 Richardson Road
ROMA **Roma Auto Sales** - 44 McDowall Street
SOUTHPORT **Lockhart Holden** - 70 Nerang Street
SPRINGSURE **Springsure Motors** - Eclipse Street
ST. GEORGE **Halpin Motors** - 39~41 Grey Street
STANTHORPE **Central Motors** - 42 Maryland Street
SURAT **Bayly Motors** - 81 Burrowes Street
TARA **Shaw Motors** - 10 Wilson Street
THEODORE **C.J. Auto Repairs** - 6th Avenue
TOOWOOMBA **Eagers Retail Pty Ltd** - Cnr James & Hume Streets
TOWNSVILLE **Tony Ireland Holden** - 87~91 Charters Towers Road
TULLY **Central Service Station** - 12 Richardson Street
WARWICK **Deighton Motors Pty Ltd** - Grafton Street
WINTON **Gillespie Motor Dealers Pty Ltd** - Elderslie Street
YULEBA **Cox Motors** - Stephenson Street

N.T.

ALICE SPRINGS **Kittle Bros (Alice Springs) Pty Ltd** - Cnr Wills & Railway Terrace
DARWIN **Suttons Motors (Darwin) Pty Ltd** - 21~25 Stuart Highway
KATHERINE **Master Motors** - 1130 Victoria Highway

S.A. Metropolitian

ADELAIDE **City Holden** - 203~221 Grenfell Street
ELIZABETH **Peter Page Holden** - Elizabeth Way
MALVERN **Claridge Holden** - 361~367 Unley Road
PORT ADELAIDE **Smiths of Port Adelaide** - 171 Commercial Road
REYNELLA **Southgate Holden** - 49~59 Main South Road
SOMERTON PARK **John H. Ellers** - 282 Brighton Road
THEBARTON **United Holden** - 1 Port Road
VALLEY VIEW **Plaza Holden** - 817~839 North East Road

S.A. Country

BALAKLAVA **Balaklava Motors** - 4 Wallace Street
BERRI **Rosenthal Bros Pty Ltd** - Vaughan Terrace
CEDUNA **Beck Motors Pty Ltd** - Poynton Street
CLEVE **Herbert Motors Pty Ltd** - Main Street
CRYSTAL BROOK **Newitt's** - 26 Brandis Street
CUMMINS **Trigg & Wedd** - 3 Umlauf Street
GAWLER **Steinhage Motors Pty Ltd** - Cnr Murray & Bridge Sts
JAMESTOWN **Jamestown Motors Pty Ltd** - 23 Spalding Road
KADINA **J.H. Rosewarne Pty Ltd** - Graves Street
KEITH **Farmers Centre** - McBain Street
KINGSCOTE **Roberts Motors** - Telegraph Street
KINGSTON **Lecornu's Service Garage** - Agnes Street
LAMEROO **Des Pahl Motors** - 27 Chandos Terrace
LOXTON **Flight Motors Pty Ltd** - Bookpurnong Terrace
MAITLAND **Maitland Motors Pty Ltd** - 58 Robert Street
MALLALA **Curnow's Garage Pty Ltd** - Balaklava Road
MENINGIE **Peter Hood Holden** - Cnr Princes Highway & Coonalpyn Road
MILLICENT **Aslin Motors** - 98 George Street
MT. BARKER **Gilbert Motors (Mt. Barker) Pty Ltd** - 57 Adelaide Road
MT. GAMBIER **O.G. Roberts & Co** - Jubilee Highway West
MURRAY BRIDGE **Dutton Motors Pty Ltd** - 7 Adelaide Road
NARACOORTE **Kingcraig Motors Pty Ltd** - 158~164 Smith Street
PORT AUGUSTA **Williams Holden** - 38 Stirling Road
PORT LINCOLN **City Motors** - King Street
PORT PIRIE **Spencer Holden** - 50 Ellen Street
RENMARK **Rosenthal Motors Pty Ltd** - Ral Ral Avenue
STRATHALBYN **Gilbert Motors (Strathalbyn) Pty Ltd** - High Street
TANUNDA **E.H. Hage & Co Pty Ltd** - 150 Murray Street
TUMBY BAY **Seaview Motors** - Tumby Terrace
VICTOR HARBOUR **Southern Holden** - 5 Victoria Street
WAIKERIE **Francombe Holden** - 6 Crush Terrace
WHYALLA **Mitchell Holden** - 64 Essington Lewis Avenue
YANKALILLA **Martin Motors Pty Ltd** - Main Street
YORKETOWN **Southway Holden** - 7 Minalaton Road

W.A. Metropolitian

CANNINGTON **Brian Gardner Holden** - 1308 Albany Hwy
FREMANTLE **Shacks Holden** - 64 Queen Victoria Street
GOSNELLS **Lance Gibbons Holden** - 2325 Albany Highway
MELVILLE **Melville Motors Pty Ltd** - 532~536 Canning Highway
MIDLAND **Goldy Holden** - 161 Great Eastern Highway
MORLEY **Metro Motors Pty Ltd** - 212 Walter Road
NAVAL BASE **Shacks Cockburn** - 15 Rockingham Road
OSBORNE PARK **North City Holden** - Cnr Scarborough Beach Rd & Harborne St
PERTH **City Motors** - 505 Newcastle Street
VICTORIA PARK **Young's Holden** - 529 Albany Highway
WANNEROO **Phoenix Holden** - 316 Berriman Drive

W.A. Country

ALBANY **Manley Stanwell Holden** - 92~98 Earl Street
AUGUSTA **Augusta Garage & Service Station** - 100 Blackwood Ave
BEVERLEY **Barnsley Holden** - 149 Vincent Street
BOYUP BROOK **Strapp Motors** - 7 Bridge Street
BRIDGETOWN **Kordics Bridgetown** - Hampton Street
BROOKTON **Coote Motors** - Robinson Road
BOOME **Norwest Holden** - McPherson Street
BRUCE ROCK **McCall Motors** - Butcher Street
BUNBURY **Wallace Holden** - 72 Spencer Street
BUSSELTON **Fennessy Holden** - 2~4 Bussell Hwy
CARNAMAH **T & H Walton Stores Pty Ltd** - Robertson Street
CARNARVON **North West Autos** - 175 Robinson Street
COLLIE **Station Motors** - 102 Throssell Street
CRANBROOK **Cranbrook Motors** - 11~13 Gathorne Street
DALWALLINU **Reid & Inglis** - Johnson Street
DERBY **Derby Auto Repairs** - 27 Loch Street
ESPERANCE **Dempster Holden** - Norseman Road
GERALDTON **Youngs Motors** - Cathedral Avenue
GNOWANGERUP **G.S. Hendry & Co Pty Ltd** - Yougenup Street
KALGOORLIE **Kyle Motors** - 114 Boulder Road
KATANNING **Edwards Holden** - 159 Clive Street
KELLERBERRIN **Dowding Motors** - 1 Mitchell Street
KOJONUP **F.W. & M. Harris & Sons** - 98 Albany Highway
KUNUNURRA **Elgee Automotive & Diesel Services** - Mango Street
MANJIMUP **Kordics** - Rose Street
MERREDIN **Carson's of Merredin** - 112 Barrack Street
MOORA **Frank Lewis Holden** - Gardiner Street
MORAWA **T & H Walton Stores** - Morawa - 6 Buron Road
MT. BARKER **Lori's Auto's** - 63 Lowood Road
NAREMBEEN **W.J. Nichols (1979) Pty Ltd** - 20 Churchill Street
NARROGIN **Narrogin Motors** - Cnr Ensign & Federal Streets
NORTHAM **Withnell Motors** - 58 Fitzgerald Street
PORT HEDLAND **Paul Moxham Holden** - 26~28 Anderson Street
WAGIN **Marley White & Co** - Tudor Street
WILLIAMS **R.S. Logie & Sons** - Rosselloty Street
WYALKATCHEM **J.S. Rimmer & Sons** - Railway Terrace

Chapter 6

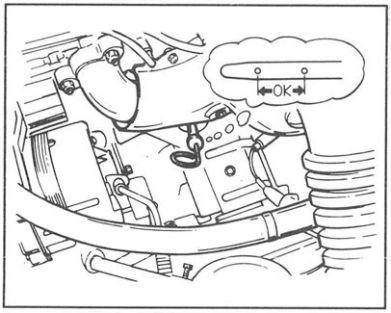
Basic Maintenance

Page

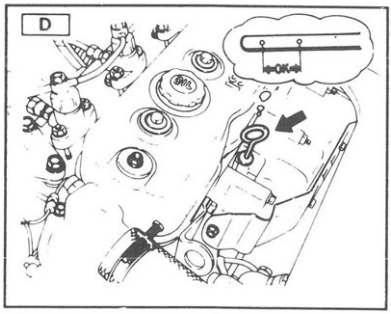
6-1 Engine oil level check
6-2 Engine oil consumption notes
6-3 Engine coolant level check
6-4 Automatic transmission fluid level check
6-5 Washer fluid level check
6-5 Power steering fluid level check
6-6 Brake fluid level check
6-6 Clutch Fluid level check
6-7 Tyre air pressure
6-8 Tyres (general)
6-10 Miscellaneous checks
6-10 Service manuals
6-11 Light bulb replacement
6-13 Fuses
6-14 Cleaning the Vehicle

It is the owner's responsibility to check the oil level at regular intervals. The best time to check the engine oil level is when the oil is warm, such as during a refuelling stop.

To check the oil level accurately, the vehicle must be on level ground. After stopping the engine, wait a few minutes for the oil to settle.

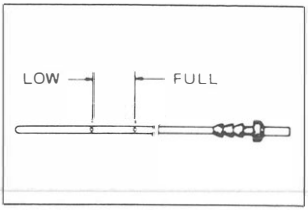


PETROL



DIESEL

Remove the dipstick and wipe it clean with a clean cloth or paper. Insert the dipstick firmly all the way down, pause for a second then withdraw the dipstick and look at the oil level on it. The oil level should be maintained between the two marks, neither going above the full mark nor under the low mark. Remember to reinsert the dipstick firmly after taking the reading.



If you need to add oil use:-

Petrol engines use SF (or SG) grade engine oil 20W/40 (or 20W/50 in high temperature areas).

Diesel engines use CD grade engine oil SAE30.

To add oil, turn the oil cap on top of the engine anti-clockwise and remove. Pour the required oil into the opening. Wait a few minutes for the oil to settle. Then check the oil level with the dipstick again. If still too low, add more oil, if now correct, screw the cap back on tightly and replace the dipstick.

If you check the oil level when the oil is cold do not run the engine first. The cold oil will not drain back into the oil pan fast enough to give a true oil level reading,

Every internal combustion engine uses a certain amount of oil, especially during the running-in period. Your engine is dependant on oil to lubricate the cylinder walls, pistons, rings and valve stems. A thin film of oil is left on the cylinder walls, some of which is carried into the combustion chamber and burnt during the combustion process. This also applies to the film of oil on the valve stems which is drawn into the combustion chamber and burnt.

There are several other factors that contribute to the rate of oil consumption in your engine, apart from mechanical malfunctions such as worn pistons, rings, valve stems and guides. These factors are: the way in which the vehicle is operated, the quality and grade of oil, the oil level, and dilution of the oil.

OPERATION OF THE VEHICLE
Sustained high engine speeds will increase oil consumption because higher speeds increase engine temperature which lowers oil viscosity thus allowing more oil to reach the combustion chamber. Towing a heavy load will also result in increased oil consumption due to increased engine temperature and hence lower oil viscosity.

It is recommended that heavy load towing be done only after the vehicle has been "run-in".

QUALITY AND GRADE OF OIL
Oil viscosity is a significant factor in oil consumption, therefore if you use an oil which is too "thin" (low viscosity) your oil consumption will increase.

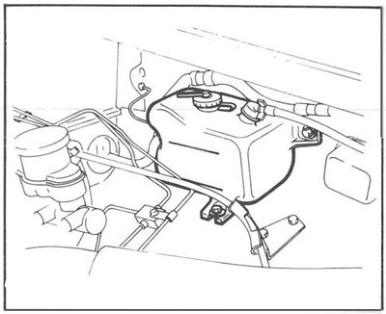
OIL LEVEL
Maintaining a proper oil level is also an important factor in controlling oil consumption. An overfull crankcase allows the reciprocating parts of an engine to splash oil onto the cylinder walls in quantities greater than the piston rings can control. This excess oil will be drawn into the combustion chamber and burnt.

DILUTION
Probably the most prevalent complaint of oil consumption comes from the motorist whose vehicle is frequently driven at below normal operating temperatures. The oil becomes diluted by fuel and moisture which settles in the oil pan and may even raise the oil level creating a false reading on the oil level dipstick. For example, in a vehicle that has accumulated 1,500 kms of short distance or intermittent city operation and has consumed a normal amount of oil, the level may not have dropped from the FULL mark, due to dilution. If this vehicle is driven for some distance at highway speeds on a warm day, the dilution elements evaporate, lowering the oil level and the motorist assumes the oil "lost" has been consumed in the highway operation.

After taking into account the above factors, if you are still concerned that your engine has excessive oil consumption then you should discuss the situation with a Holden Dealer. Remember that an engine's oil consumption should not be judged until it has run at least 7,000 kms.

The level of coolant should be checked at least weekly. This is simply a matter of looking at the level in the plastic container, called the surge tank.

When the engine is cold the coolant level should be at or above the minimum mark on the surge tank. After the vehicle has been driven and the engine is at normal operating temperature the level should be somewhere between half full and the maximum mark on the surge tank.



The LONG LIFE COOLANT in your vehicle conforms to Holden's specification number HN 1897. This can be purchased as:

M39288 (1 litre)
M39338 (4 litres)
M39290 (20 litres)

If the surge tank requires topping up, first premix a solution of 1/3 LONG LIFE COOLANT and 2/3 water. Flip up the cap on the top of the surge tank, add the premixed solution and secure the cap.

Failure to use the specific Holden's coolant or maintain the specified concentration may result in voiding your warranty.

In emergency situations, plain water may be used temporarily in the cooling system until the correct Holden's LONG LIFE COOLANT is obtained as soon as possible from the nearest Holden Dealer.

It should be noted that the specified LONG LIFE COOLANT contains special corrosion inhibitors for the best corrosion protection of your engine and cooling system. This LONG LIFE COOLANT also gives your cooling system greater hot weather protection by increasing the boiling point and in addition provides protection in cold weather conditions down to -16 degrees Celcius, provided the correct concentration is maintained.

If you regularly have to top up the surge tank you should see your Holden Dealer for a cooling system check.

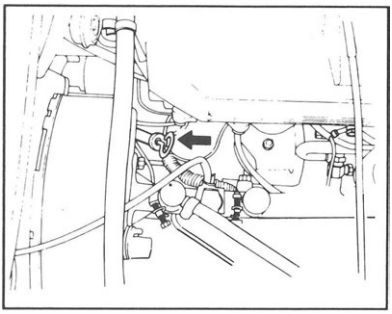
CAUTION

CORROSION INHIBITORS AND ANTI-FREEZE FLUIDS ARE POISONOUS. USE EXTREME CARE WHEN HANDLING. IF SWALLOWED SEEK MEDICAL ATTENTION.

Refer to page 4-7 if engine overheats.

If your vehicle is fitted with an automatic transmission, the level should be checked weekly, by looking at the fluid level on the dipstick. Dirt in the transmission can cause breakdowns, so be careful when checking or adding fluid.

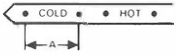
NOTE: If fluid has to be added often, there may be a problem or leak - and you should see your Holden Dealer.



Fluid level - cold check

The procedure for checking a cold transmission is as follows:

1. Vehicle to be parked on level surface.
2. Apply the park brake and place the shift lever in PARK. DO NOT MOVE THROUGH RANGES.
3. Start the engine.
4. Check the fluid level. This check must be performed after the engine has been allowed to idle for one minute and not longer than two minutes. To check the level, withdraw the dipstick, wipe it clean, insert it as far as it will go and then remove again. The correct level is between the two "cold" marks (A).

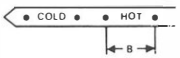


If adding fluid, use only DEXRON* 11D AUTOMATIC TRANSMISSION FLUID. Add the fluid in the same opening as the dipstick is stored in and wait one minute for the fluid to settle. Again check the level with the dipstick and add further oil if necessary. Remember to always replace the dipstick.

Fluid level - hot check

To check the fluid level when the transmission is warmed up to normal operating temperature the following procedure should be used.

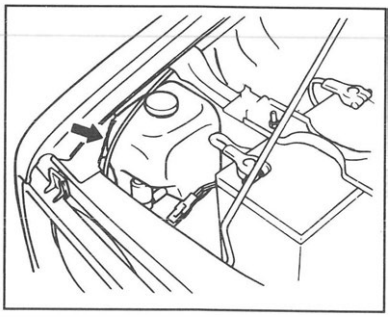
1. Park the vehicle on level surface and leave engine idling.
2. Move the shift lever through each position from "P" to "L", then return the lever to "P" and leave the engine idling.
3. To check the level, withdraw the dipstick, wipe it clean, reinsert it as far as it will go and then remove it. The correct level is between the two "hot" marks (B).



If adding fluid, use only DEXRON* 11D AUTOMATIC TRANSMISSION FLUID. Add the fluid in the same opening as the dipstick is stored in, and wait one minute for the fluid to settle. Again check the level with the dipstick and add further oil if necessary. Remember to always replace the dipstick.

* DEXRON is a registered trademark of General Motors Corporation.

Washer fluid



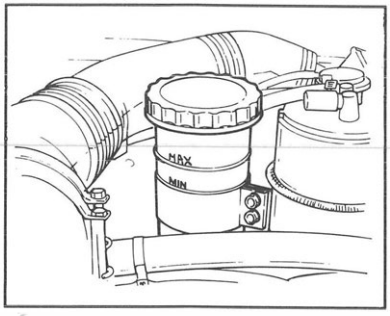
The washer fluid is constantly used, so the level should be checked weekly and topped up as required.

Maintain the fluid at the level indicated on the outside of the container.

For a crystal clear windscreen, the correct amount of Optikleen (part no. M39826) can be added. Do not use ordinary soap or detergent as these not only froth up but will also damage the wiper rubbers.

Make sure the cap is secured.

Power steering (where fitted)



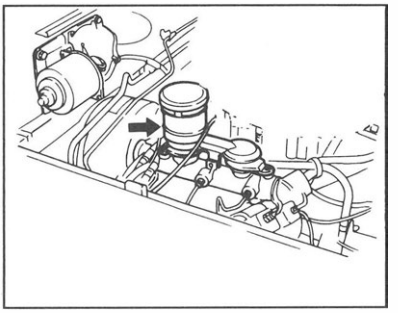
The level should be checked after the vehicle has been driven for a while, so that the fluid is warm. A convenient time to do this is when stopping for petrol.

The level should be maintained between the level markings on the outside of the reservoir.

If fluid needs to be added, use DEXRON* 11D . Do not fill over the maximum level and remember to replace the cap tightly. If you often need to add fluid, you should see your Holden Dealer to have the power steering system checked.

*DEXRON 11 is a registered trade mark of General Motors Corporation.

Brake fluid

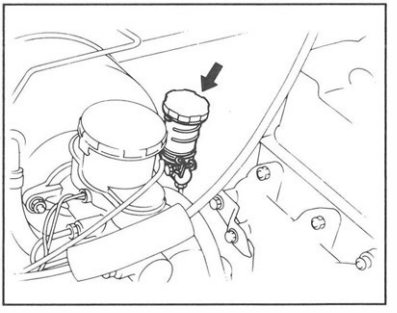


The brake fluid level in the master cylinder should be checked regularly in conjunction with checking the oil and coolant levels. The fluid level, visible through the "see through" master cylinder should be maintained between the level markings on the master cylinder. If the fluid is between these levels do not remove the master cylinder cap. Remember that brake fluid exposed to the atmosphere will quickly absorb moisture which in turn lowers the performance of the fluid as well as increasing the risk of corrosion of brake components.

If fluid needs to be added, unscrew and lift off the top cover. Top up with heavy duty brake fluid which meets Holden's specification no. HN 1796. This can be purchased as Holden's part no. 92026651. Remember to secure the cap.

If the master cylinder required constant topping up it could indicate that a malfunction exists in which case it should immediately be brought to the attention of your Holden Dealer.

Clutch fluid

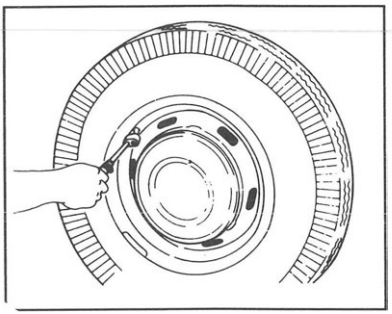


The clutch fluid level should be checked weekly. The level should be maintained between the minimum and maximum markings.

The same fluid is used for both the brake system and the clutch system. So, if fluid needs to be added use heavy duty brake fluid meeting Holden's specification no HN 1796. This can be purchased as part no. 92026651.

If you often need to add fluid, see your Holden Dealer to have the clutch system checked.

Tyre air pressure



Checking the air pressure of your tyres (including the spare) ensures your SAFETY, as well as reducing fuel consumption and increasing the life of your tyres.

Make sure your vehicle will handle at it's best - CHECK THE PRESSURES WEEKLY. For constant long distance or rough road travelling, daily checking is recommended.

Refer to the tyre placard on the driver's door pillar for the correct pressure for your tyres.

Tyre inflation pressure increases when the tyres have been driven more than 2 km. The pressure should be checked when the TYRES ARE COLD (stationary for over 3 hours). If they must be checked when warm/hot, allow pressure to read 10% above that recommended.

Always use a TYRE PRESSURE GAUGE to check the tyres - simply looking at the tyres is not sufficient.

Remember to put back any valve DUST CAPS or EXTENSIONS if so equipped. This stops dirt and moisture from fouling the valves.

When checking the tyre air pressure, take a look at the condition of the TYRE TREAD, for stones or abnormal wear.

To maximise the protection of tyres on vehicles operating for prolonged times over rough roads (particularly in outback conditions) it is recommended that the cold tyre inflation pressure recommended for maximum load condition as shown on the tyre placard is used.

Alignment and balance

Improper wheel alignment can cause the tyres to wear faster and to wear unevenly. It can also cause the vehicle to "pull" to the left or right.

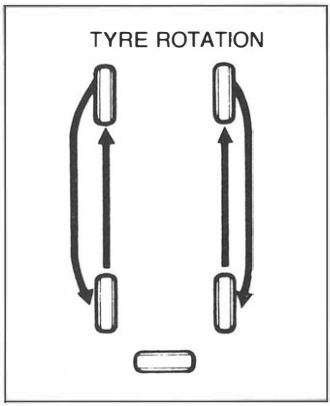
Out-of-balance wheels and tyres can cause annoying vibration and uneven tyre wear such as cupping and flat spots.

If you have any reason to suspect that either of the above problems exists then have a wheel alignment and balance check done by your Holden Dealer.

Tyre inspection and rotation

Front and rear tyres perform different jobs and can wear differently depending on the types of roads driven, your driving habits, wheel alignment and balance, tyre pressures etc.

Tyre condition will be checked for you when you take your vehicle to be serviced by your Holden Dealer, who will be able to diagnose any unusual signs of wear. If the tyres are rotated, it is recommended that the balance be checked at the same time. However if no abnormal or uneven wear is evident, tyres need not be rotated.



Heavy treads

Caution must be exercised when using tyres with heavy treads, including tyres designed to gain traction in bad weather conditions. At sustained high speeds, this type of tyre will run at higher temperatures than standard tyres and consequently should only be operated within the limits recommended by the manufacturer.

Any doubts concerning the fitness of the tyres on your vehicle for the purpose you require should be referred to your Holden Dealer.

Wheel replacement

When replacing wheels for any reason, ensure that the new wheels are equivalent in diameter, rim width, offset and mounting configuration to those originally installed in your vehicle.

NOTE: Replacing your factory fitted wheels and tyres with non specified wheels and tyres may void your warranty as well as your motor vehicle insurance policy.

Tyre traction

CAUTION: A decrease in driving, cornering and braking traction occurs when water, snow, ice, gravel or other material is on the road surface. Driving practises and vehicle speed should be adjusted to the road conditions.

When driving on wet or slushy roads, it is possible for a wedge of water to build up between the tyre and road surface. This phenomenon, known as hydro-planing, may cause partial or complete loss of traction, which adversely affects vehicle control and stopping ability. To reduce the possibility of traction loss, the following precautions should be observed.

1. Reduce speed levels during rainstorms or when roads are slushy and if the road has standing water or puddles.

2. Replace tyres when tread wear indicators are visible.

3. Check that tyres are properly inflated.

Tyre replacement and repair

CAUTION: Do not mix different tyre construction types, such as radial and cross ply, on your vehicle except in emergencies, because your vehicle's handling could be affected and may result in loss of control.

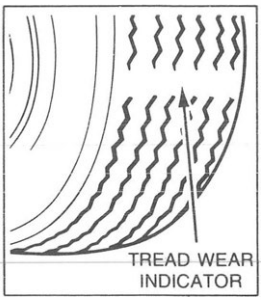
When replacing tyres you should use the same size, load rating and construction type as the original tyres on your vehicle. Refer to tyre placard inside glove box for tyre size and load rating. Using a different size or type of tyre may affect such things as ride, handling, speedometer/odometer calibration, vehicle ground clearance and tyre or tyre chain clearance to the body or chassis.

Tyres with a higher speed rating and/or with a maximum load rating in excess of that listed are also acceptable as replacements provided they are fitted to a suitable rim size.

New tyres should be fitted in pairs to the front. If replacing only one tyre, it should be paired on the same axle with the least worn of the other three.

You should replace your tyres when:

1. The tyres are worn to the point where the tread indicators appear or the cord or fabric is showing. The original equipment tyres fitted to your vehicle incorporate built-in tread wear indicators which assist in determining when the tyres have worn to the point of needing replacement (see illustration). In the interest of safety, replacement should not be delayed.



2. The tread or sidewall is cut, split, or cracked deep enough to expose the cord or fabric.
3. The tyre has a bump or bulge in it, indicating some kind of internal damage.
4. The tyre has a puncture, cut or other damage which can't be repaired because of the size or location of the damage.

If in doubt about the extent of damage to the tyre have it removed from the wheel and examined by a tyre specialist.

If a pressure loss occurs while driving, do not attempt to drive on the deflated tyre more than is necessary to stop safely. Driving even a short distance on a deflated tyre can damage it and the wheel beyond repair.

When an object which has punctured the tyre is removed, repairs are to be made in accordance with the tyre manufacture's recommendations.

CAUTION: Tyres which have been repaired or retreaded will not be able to be operated safely at high speeds therefore use is not recommended.

Miscellaneous checks

When carrying out the checks already described you should also inspect the engine for oil leaks. If leaks are evident you should consult your Holden Dealer.

The following checks should also be regularly done to ensure proper safety and dependability of your vehicle.

CHECK:

that all exterior lights are working and that their appropriate interior indicators light up when in operation.

mirrors and glass are clean and not scratched.

automatic transmission T-bar indicator correctly lines up next to the gear selected.

the aim of water on the windscreen and condition of the wipers

horn works.

all seat belt condition and operation (give it a sharp tug to make sure that it will 'lock' if necessary) and check that buckles are clean and operating correctly. Remember that seat belts must never be worn twisted.

Service manuals

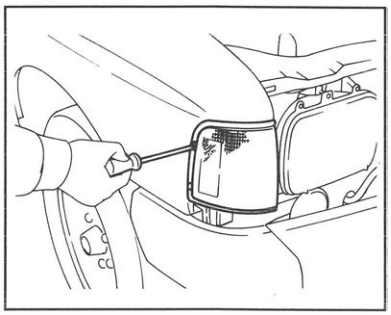
Holden's Motor Company also publishes various service manuals which are available from your Dealer.

Headlights

Proper aiming of the headlights is most important to assure correct illumination of the highway without blinding other motorists. Headlight aiming or replacement should be carried out by your Holden Dealer. The halogen bulbs have a capacity of 60/65 watts.

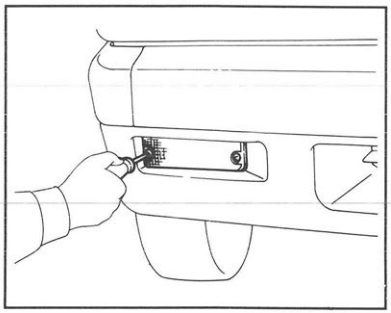
Side turn signal lights

Unscrew each of the three screws securing the lens. The bulb has a capacity of 21 watts.



Front turn signal and parking lights

Unscrew each of the two screws securing the lens. The bulbs have a capacity of 21 watts (turn signal) and 5 watts (parking).

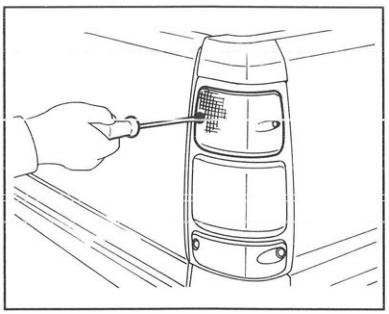


Rear combination lights.

Unscrew each of the six screws securing the lens.

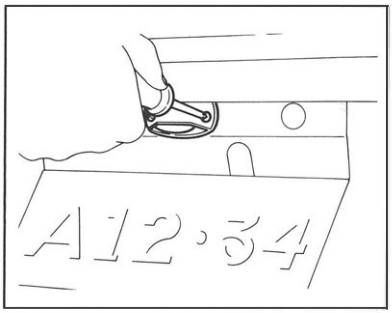
The bulbs have the following capacities:

Turn signal lights: 21 watts
Stop/tail: 21/5 watts
Back-up lights: 21 watts



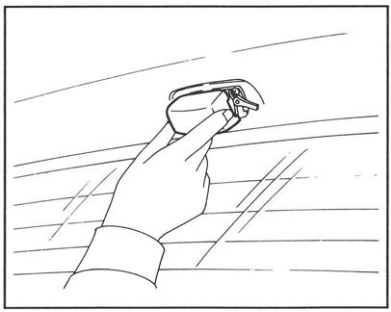
License plate lights

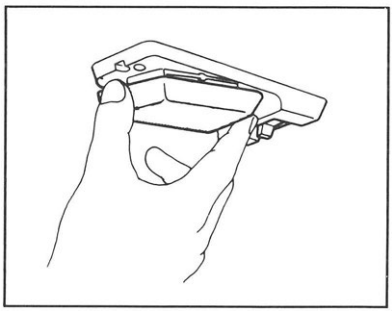
Unscrew the two screws securing the lens. The bulb has a capacity of 5 watts.



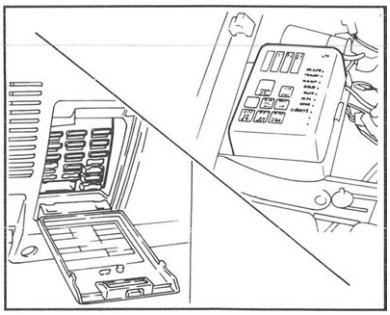
Interior Lights

The lens can be pulled out easily by hand. The bulb has a capacity of 10w.



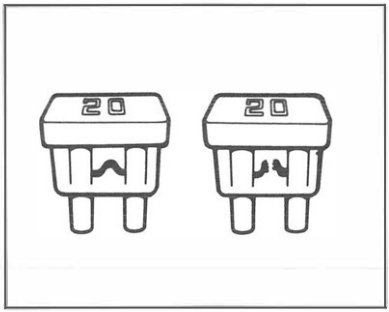


The fuse panel is located under the instrument panel on the driver's side. Additional fuses will also be found in a fuse box within the engine compartment, also on the driver's side.



If a fuse has blown out check to locate the cause of trouble and give the necessary service attention before replacing the fuse.

In the illustration, the fuse on the right shows a burnt out fuse.



Caution: when replacing a fuse be sure to use a fuse of the specified amperage, as indicated on the fuse box panel cover. Never install a wire or similar for replacement as it may cause a fire hazard to the vehicle.

If the replaced fuse also burns out you should see your Holden Dealer.

The paint on your vehicle will stay bright and new-looking provided you wash and wax it regularly, using approved products. Weekly washing is recommended if the vehicle is being used constantly or if it is not parked under cover.

Before you wash the paintwork, thoroughly wash in and around the front and rear windows and check that door drain holes are clean. Hose off any heavy dirt on the glass, but leave final cleaning of the glass until last.

Underbody cleaning

The effects of salts and other corrosive materials from road surfaces can result in accelerated rusting and deterioration of underbody components such as brake and fuel lines, frame, underbody floor pan, exhaust system, brackets, parking brake cables. These corrosive effects, however, can be reduced by periodic hosing of the underbody with plain water whenever the vehicle is being washed. In geographical areas having a heavy concentration of corrosive materials it is recommended that the complete underbody be inspected and washed at least one each year, preferably after a winter's exposure. Particular attention should be given to cleaning out underbody members where dirt and other foreign materials may have collected.

Washing tips

Use either cold or warm water - preferably running.

Use clean chamois cloths, sponges or rags (old, clean linen is better than new material for glass).

Don't wash your vehicle in bright sunlight - it will streak.

Grease and oil can be removed with a little kerosene or white spirits. Flush with water afterwards.

If petrol is spilled during refilling, flush with water immediately.

Be sure that your cleaner, polish or wax is suitable, Holden's Wash & Wax from your Dealer is highly recommended.

Insect spots can be removed with a mixture of 220 grams of baking soda and 2 litres of water. Flush clean afterwards. New tyre look can be restored with Holden's Tyre Black from your Dealer.

Tarnished chrome responds well to Holden's Polishing Liquid.

Wiper blade cleaning

Much of the road scum thrown up onto the windscreen glass (causes smearing when the wipers are switched on) transfers onto the wiper blades. Many owners, whilst they methodically clean the windscreen glass, omit to clean the wiper blades and consequently smearing of the glass re-appears immediately the wiper blades are set in motion. The blades can be cleaned by simply lifting them off the windscreen glass and then using warm water and a recognised washing fluid.

IMPORTANT: Do not operate the wipers blades by hand as this may damage the wiper drive mechanism.

Should the wiper blades be frozen to the windscreen, it is imperative that they be lifted off and freed by hand before switching on the wipers.

Chapter 7

Specifications & Emissions

Page

7-1 Engine Specifications
7-2 Transmission Specifications
7-2 Brake Specifications
7-2 Steering Specifications
7-2 Rear Axle Specifications
7-3 General Lubricants
7-3 Dimensions
7-4 Emission Contol Information
7-5 Identification Plates & Labels

Engine		Petrol - 4ZE1	Diesel - 4JA1
Description		4 cylinder, overhead cam with electronic controlled fuel injection	4 cylinder, overhead valve with direct fuel injection
Piston Displacement		2,559 cc	2,499cc
Compression Ratio		8.3:1	18.4:1
Power		88 kw @ 5,000 rpm	57 kw @ 4,000 rpm
Torque		195 Nm @ 2,600 rpm	162 Nm @ 2,300 rpm
Firing Order		1,3,4,2	1,3,4,2
Injection Pressure		-	185 kg/cm2
Ignition injection or ignition timing		12 degrees BTDC @ 900 rpm	12 degrees BTDC
Valve Clearance (cold)	Intake	0.20 mm	0.40 mm
	Exhaust	0.20 mm	0.40 mm
Oil	Capacity	4.7 litres	5.5 litres
	Specifications	SF or SG grade oil. For normal use, 20W/40 viscosity is recommended. If operating in ambient temperatures over 35 degrees, use 20W/50 viscosity. For prolonged use in snow areas, the use of 15W/40 or 15W/30 is recommended.	CD grade diesel engine oil
Coolant	Capacity	9.8 litres	10.3 litres
	Specifications	2/3 water and 1/3 Long Life Coolant conforming to Holden's specification no. HN 1897, part no. M39288 (1 litre) or M39338 (4 litres).	

PETROL ENGINES ONLY: Engine tune-up data, including spark plug gap, timing and idle speed will be found on the Emission Label, inside the engine compartment of your vehicle. Refer page 7-4 for exact location.

NOTE: Non-detergent and other low quality oils are specifically not recommended. The use of break-in oils, tune-up compounds, friction-reducing compounds and other supplemental additives are NOT RECOMMENDED; their use will not only increase operating costs, but will be detrimental to the operation of your vehicle.

Transmission		MUA5C manual with petrol enginel	MSG5E manual with diesel engine	AW03-72L automatic
Gear Ratio:1	1st	3.767	3.785	2.826
	2nd	2.314	2.171	1.493
	3rd	1.404	1.413	1.000
	4th	1.000	1.000	0.688
	5th	0.809	0.855	-
	Rev	3.873	4WD 3.753 2WD 3.720	2.703
Oil capacity (litres)	2WD	2.95	1.55	6.5
	4WD	4.4	4.6	-
Oil specification		SAE 40 grade engine oil or same oil as crankcase		Dexron*11D Automatic Transmission Fluid

Brakes	Description	Front wheel disc. Rear wheel drum, incorporating park brake acting on rear wheels.
	Fluid Type	Heavy duty hydraulic brake fluid to Holden's 1796 specification.

Steering	Manual	Fluid Capacity = 0.4 litres Fluid Type = Gear oil GL5 grade
	Power	Fluid Capacity = 1.0 litres Fluid Type = Dexron* 11D

Rear Axle	4WD	Description = Limited Slip Differential Ratio = 4.555:1 Fluid Type = LSD gear oil GL5 grade
	2WD	Description = Banjo, semi-floating Ratio = petrol - 4.300:1; diesel - 4.100:1 Fluid Type = Gear oil GL5 grade

* Dexron 11 is a registered trademark of General Motors Corporation.

General lubricants

Brake & Clutch Pedal Pivots	Grease to Holden'sHN1147 Specifications
Wheel Bearings	Wheel bearing grease yo Holden's HN 1227 Specification
Chassis, Park Brake, Universal Joint and Propeller shaft Sliding Yoke	Water resistant EP Type Chassis lubricant to Holden's HN 1271 specification

Dimensions

Wheel base	Long Short	3,025 mm 2,680 mm
Wheel Track	Front 2WD Front 4WD Rear	1,425 mm 1,390 mm 1,400 mm
Minimum Ground Clearance	2WD 4WD	210 mm 220 mm

Refer page 3-10 for vehicle mass (weight).

During the combustion process in an automotive engine, some of the fuel (hydrocarbons) fail to burn and are discharged into the engine crankcase or exhaust system. Additionally, hydrocarbons are emitted into the atmosphere through evaporation of petrol vapours from the fuel tank. Of the total hydrocarbons coming from uncontrolled automobiles, about 25% are emitted from the crankcase, 20% from the fuel system and 55% from the engine exhaust.

In addition to hydrocarbons, carbon monoxide and oxides of nitrogen are also formed during the combustion process. These are also discharged into the exhaust system.

There are three areas from which pollutants are emitted:

(a) Exhaust System

(b) Crankcase

(c) Fuel System

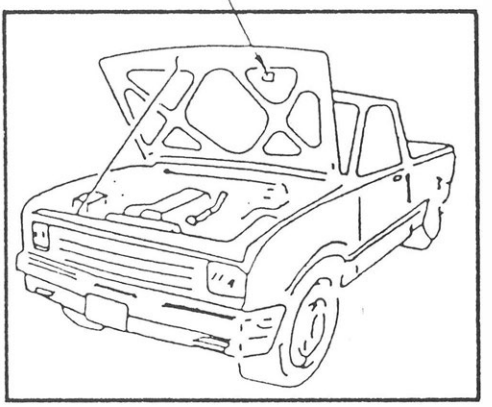
A number of controls have been installed by Holden's to control the amount of pollutants emitted from your new vehicle.

It is recommended that any replacement parts used for required maintenance services or for the repair of emission control systems be new parts. Use of replacement parts which are not of equivalent quality may impair the effectiveness of such systems, and may adversely affect your Vehicle Warranty.

Emission Control Information Label

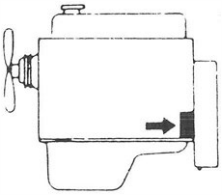
The label is located on the inside of the bonnet.

Information on this label includes ignition timing, idle speed and spark plug gap settings.

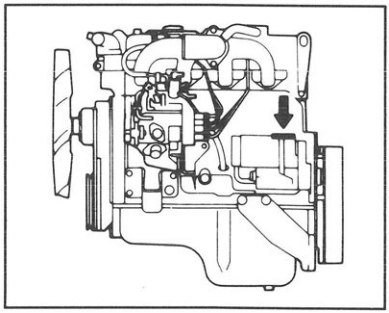


Engine number location

Petrol
It is stamped on the passenger, rear side of the engine block.



Diesel
It is stamped on the passenger, rear side of the engine block.



Tyre pressure placard

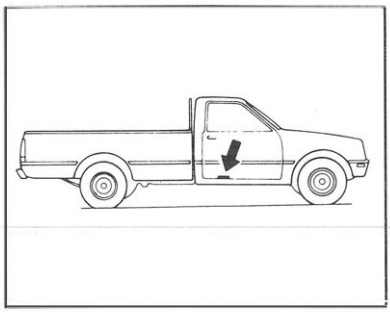
The tyre placard is located on the driver's door pillar.

Emission label

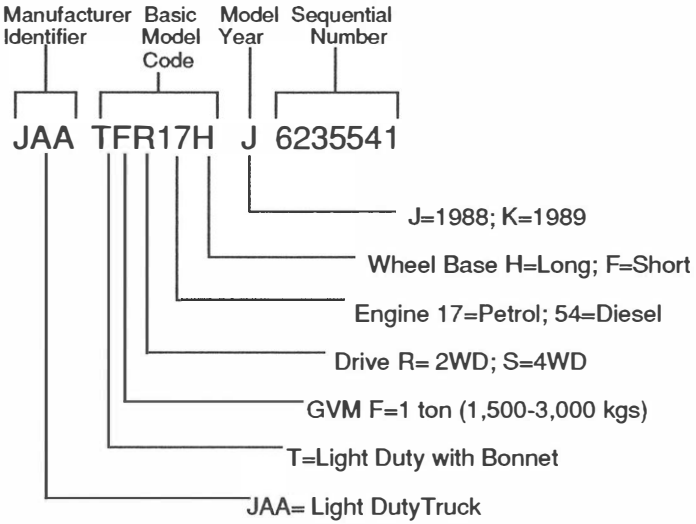
Refer page 7-4.

V.I.N. (frame)

It is stamped on the, right hand side of the chassis side member, under the driver's door.

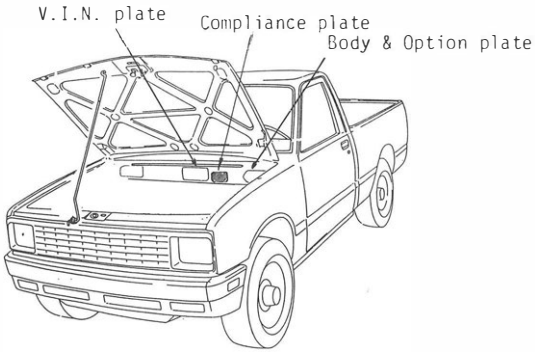


V.I.N. plate



Safety compliance plate

Shown on the plate are the vehicle Make, Model, Name and Style, Month and Year of Manufacture, Vehicle Identification Number, approved seating capacity and the Australian Design Rules with which the vehicle complies.



Body & option identification plate

The plate shows body style, body serial number, paint and trim colour combination, paint number, engine transmissions, axle ratio options and built date.

The built date is defined as "the date of manufacture" by calendar month and year in which the body shell and power train sub-assemblies are co-joined or moved from the production line.

Chapter 8

Service/Maintenance Schedule

Page

8-1 When to Have the Service Carried out
8-2 Extreme Operating Conditions
8-3 Maintenance Schedule
- what is Actually Performed at each Service
8-5 Suggested Times for Each Service
8-6 1,000 km Inspection and Adjustment
8-8 Intermediate Oil Change Record
8-10 10,000 km or 6 Months Service
8-12 20,000 km or 12 Months Service
8-14 30,000 km or 18 Months Service
8-16 40,000 km or 24 Months Service
8-18 50,000 km or 30 Months Service
8-20 60,000 km or 36 Months Service
8-22 70,000 km or 42 Months Service
8-24 80,000 km or 48 Months Service
8-26 90,000 km or 54 Months Service
8-28 100,000 km or 60 Months Service
8-30 110,000 km or 66 Months Service
8-32 120,000 km or 72 Months Service
8-34 Notice of Name/Address/Ownership Change

SERVICE INTERVALS 8-1

When it comes to service, remember that your Holden Dealer has the trained personnel and specialised equipment to correctly service your vehicle. Your Dealer invites you to return for all your service needs both during and after the warranty period.

The safety, economy, emission control, performance and reliability of your vehicle cannot be assured unless regular maintenance is performed, preferably by factory-trained technicians.

Therefore, it is in the owner's interest that the following services are performed at the specified Distance or Months (whichever occurs first).

#	1,000 km	- 1	month
#	10,000 km	- 6	month
#	20,000 km	- 12	month
#	30,000 km	- 18	month
#	40,000 km	- 24	month
#	50,000 km	- 30	month
#	60,000 km	- 36	month
#	70,000 km	- 42	month
#	80,000 km	- 48	month
#	90,000 km	- 54	month
#	100,000 km	- 60	month
#	110,000 km	- 66	month
#	120,000 km	- 72	month

The one month - 1,000 km service will be performed without cost for labour by the Selling Dealer.

This service may be carried out by another Holden Dealer provided you have a letter of introduction from the Selling Dealer. Your Dealer will supply the necessary letter of introduction upon request.

It is the owner's responsibility to have the engine oil changed between the regular service interval of 10,000 km or 6 months, refer page 8-8.

The services shown in this schedule between 1,000 and 120,000 are to be performed after 120,000 km at the same intervals.

NOTE: All maintenance services as listed in this handbook and replacement of service items are the responsibility of the owner and as such are NOT considered, under the provisions of the new vehicle warranty to be rectification of defective material and workmanship. Items such as wheel alignment, necessary adjustments to drive belts, transmission, clutch, parking brake, etc. or any other items which may require servicing due to fair wear and tear will be carried out at the owner's cost.

Failure to have proper maintenance services carries out by an Authorised Holden Dealer or service Dealer may void your new Vehicle Warranty. It is strongly recommended that you read the "New Vehicle Warranty" on page 5-1, so that you are conversant with your entitlements.

As each service is performed and the coupon removed, the following service coupon is readily visible to remind you when the next service is due.

After the service is completed, the owner should see that the Validation Record is stamped and signed by the Dealer. This is important as it will not only assist in the determination of Warranty Claims, but enhance the value of the vehicle whenever resale is contemplated.

If your vehicle operates under any of the extreme conditions listed in the following table it is recommended that some items be serviced more frequently than the intervals specified in the Maintenance Plan.

NOTE: The extra services listed below need only be used continuously if your vehicle operates continuously under the conditions specified.

If you operate under any of these conditions on a one off basis e.g. holiday trip, then an extra service should be for that period only.

As a guide, if you operate continually for a period of one month or 1,000 kilometres under any of the extreme conditions, then this could qualify for additional services.

If at any time it is considered that the above items or other items should be more frequently serviced due to the type of operation or before a long trip, discuss the situation with the service manager of your Holden Dealer.

Change engine oil every 2,500 km	A		C	D	E
Replace engine oil filter every 5,000 km	A		C	D	
Inspect universal joints and sleeve for wear every 10,000 km		B			
Change manual transmission and transfer case oil every 20,000 km		B			E
Change automatic transmission and transfer case oil every 30,000 km	A	B	C		E
Change differential oil every 20,000 km	A	B	C		
Change air cleaner element every 5,000 km			C		
Inspect rear brake linings every 10,000 km	A	B	C		

A = Repeated short trips

B = Driving on rough roads

C= Driving on dusty roads

D = Driving in extremely cold weather and/or salted roads

E = Towing

Use odometer reading or months, whichever occurs first	X 1000	1	10	20	30	40	50	60	70	80	90	100	110	120
	or months		6	12	18	24	30	36	42	48	54	60	66	72
UNDER HOOD OPERATIONS														
Change engine oil (every 5,000 km).		X	X	X	X	X	X	X	X	X	X	X	X	X
Check all fluid levels in engine compartment, inc brake, washer, clutch battery electrolyte, auto transmission, power steering. Check coolant level and inhibitor %, use tester.		X	X	X	X	X	X	X	X	X	X	X	X	X
Inspect condition and adjust tension of all engine drive belts. Adjust if necessary using gauge.		X	X	X	X	X	X	X	X	X	X	X	X	X
P - check timing belt for cracks, wear and tension.			X	X	X	X	X	X	X	X	X	X	X	X
Inspect condition and attachment of all hoses in engine compartment. Inspect for fluid leaks, e.g. oil, brake, coolant, fuel, clutch.			X	X	X	X	X	X	X	X	X	X	X	X
Inspect air cleaner element for restriction and condition. Replace if necessary.		X	X	X	X	X	X	X	X	X	X	X	X	X
D - Check injection pressure and spraying condition.							X					X		
D - Check injection timing.			X		X		X		X		X		X	
P - Lubricate distributor and clean cap. Check high tension leads. Replace spark plugs. Check ignition timing.				X		X		X		X		X		X
P - EGR System only. Clean valve and manifold opening.				X		X		X		X		X		X
Serviceable PCV Valves - Dismantle, clean and reassemble. Disposable PCV Valves - Test and replace if necessary.						X		X		X		X		X
Drain and refill cooling system. Add specified quantity of anti-freeze. Pressure test cooling system and check for leaks. Clean radiator core - check for blockages.				X		X		X		X		X		X
P - Check tightness of cylinder head bolts.		X		X		X		X		X		X		X
Adjust valve clearance.		X		X		X		X		X		X		X
Check and adjust if necessary engine idle speed.				X		X		X		X		X		X
P - Evaporative control system. Check all fuel and vapour lines and hoses for proper connections and correct routing as well as condition. Remove canister and check for cracks or damage.						X		X		X		X		X
Check wiring harness and terminals for looseness or damage.		X	X	X	X	X	X	X	X	X	X	X	X	X
Clean or replace fuel filter as necessary.				X		X		X		X		X		X

Use odometer reading or months, whichever occurs first	X 1000	1	10	20	30	40	50	60	70	80	90	100	110	120
	or months		6	12	18	24	30	36	42	48	54	60	66	72
UNDER VEHICLE OPERATIONS														
Change engine oil filter.		X	X	X	X	X	X	X	X	X	X	X	X	X
Check manual transmission oil level.			X	X	X		X	X	X		X	X	X	
Change lubrication in manual transmission and transfer box.		X				X				X				X
Check front and rear axle oil levels.				X	X		X	X	X		X	X	X	
Change front and rear axle oils.			X			X				X				X
Lubricate front suspension and steering joints. Inspect for looseness and damage.		X	X	X	X	X	X	X	X	X	X	X	X	X
Inspect steering gear, linkage and dust covers for wear and security. Notify owner of any deficiencies, including loss of steering preload, for immediate rectification.		X	X	X	X	X	X	X	X	X	X	X	X	X
Lubricate accelerator, transmission shift and clutch linkages as applicable.			X	X	X	X	X	X	X	X	X	X	X	X
Check parking brake operation and lubricate system. Adjust if necessary.			X	X	X	X	X	X	X	X	X	X	X	X
Inspect exhaust system and adjacent body areas for open seams or damage.			X	X	X	X	X	X	X	X	X	X	X	X
Inspect engine and transmission mountings.			X	X	X	X	X	X	X	X	X	X	X	X
Check and adjust clutch for operating rod free travel.		X	X	X	X	X	X	X	X	X	X	X	X	X
Check operation of transmission shift linkage. Adjust if necessary.				X		X		X		X		X		X
Inspect tyres and wheels for irregular wear and damage. Check inflation pressure and torque wheel nuts.		X	X	X	X	X	X	X	X	X	X	X	X	X
Inspect brake pads and linings.				X		X		X		X		X		X
Inspect front wheel bearings and check adjustment. Repack only if necessary.				X				X				X		
Repack front wheel bearings.						X				X				X
Check under vehicle for fluid leaks, incl. brakes, fuel, clutch, transmission, shock absorbers and differential.		X	X	X	X	X	X	X	X	X	X	X	X	X
Check under vehicle for damage or component looseness.		X	X	X	X	X	X	X	X	X	X	X	X	X
Check propeller shaft U-joints and splines for wear.				X		X		X		X		X		X
Change power steering fluid.						X				X				X
Change brake fluid.						X				X				X

Use odometer reading or months, whichever occurs first	X 1000	1	10	20	30	40	50	60	70	80	90	100	110	120
	or months		6	12	18	24	30	36	42	48	54	60	66	72
INTERIOR VEHICLE OPERATIONS														
Check operation of all waring indicators, ignition steering lock, brake and park lights and interior electrical system items and controls. Check all internal lights.		X	X	X	X	X	X	X	X	X	X	X	X	X
Check heating, ventilationand demsting system ducts aree clear and operation is satisfactory and controls correctly adjusted.		X	X	X	X	X	X	X	X	X	X	X	X	X
Seat belt inspection. Examine webbing condition, buckle operation and retractor mechanism function		X	X	X	X	X	X	X	X	X	X	X	X	X
Check steering wheel free play.		X	X	X	X	X	X	X	X	X	X	X	X	X
Check brake pedal travel and free play		X	X	X	X	X	X	X	X	X	X	X	X	X
EXTERIOR VEHICLE OPERATIONS														
Lubricate door handle pivots, door hinges, striker bolts or plates, hood lock and catch and luggage compartment lock or end gate regulator as required.		X	X	X	X	X	X	X	X	X	X	X	X	X
Check vehicle on the road for even braking and steering, transmission operation, engine response and park brake operation. Check mirrors, seat adjustment and transmission shift pattern. Check wiperblade effectiveness.		X	X	X	X	X	X	X	X	X	X	X	X	X

SUGGESTED LABOUR TIME

Hours	-	1.3	2.5	1.2	3.9	1.2	2.5	1.2	3.9	1.2	2.5	1.2	3.9
Add if front wheel bearings repacked.	-	-	.5	-	-	-	.5	-	-	-	.5	-	-
Add for diesel engine	-	.5	-	.5	-	1.6	-	.5	-	.5	-	.5	-
Subtract for diesel engine	-	-	.5	-	.6	-	.6	-	.6	-	-	-	.6

The owner will be charged for all lubricants and materials used plus labour at the times recommended above.

The repair or replacement of any part found faulty during a service check and not covered by Holden's Warranty will be added to the charges.

Where any deficiencies are noted, such items should be reported to the owner/operator so that the extra work can be authorised.

1,000 Kilometre Inspection and Adjustment

This coupon should not be removed until the vehicle is presented for service.

Owner's Name Mr. Mrs. Miss .....

Address .....

Town & State ..... Postcode .....

Reg. No. ..... Eng. No. .....

Selling Dealer's Stamp & Signature .....

Date of Acquisition .....

This vehicle has been thoroughly checked in accordance with the schedule on the reverse side of this coupon.

Servicing Dealer's Stamp & Signature .....

Servicing Dealer .....

Town ..... State .....

Owner's Signature .....

This Inspection & Adjustment will be carried out without charge to the owner except for any lubricants used.

PTO

1000 Kilometre Inspection and Adjustment

This vehicle has been thoroughly checked in accordance with the 1,000 kilometre inspection and adjustment.

Dealer .....

Service Manager's Signature .....

Date ..... Odometer Reading .....

UNDER HOOD OPERATIONS

	Change engine oil (every 5,000 km).
	Check all fluid levels in engine compartment, inc brake, washer, clutch battery electrolyte, auto transmission, power steering. Check coolant level and inhibitor %, use tester.
	Inspect condition and adjust tension of all engine drive belts. Adjust if necessary using gauge.
	Inspect air cleaner element for restriction and condition. Replace if necessary.
	P - Check tightness of cylinder head bolts.
	Adjust valve clearance.
	Check wiring harness and terminals for looseness or damage.

UNDER VEHICLE OPERATIONS

	Change engine oil filter.
	Change lubrication in manual transmission and transfer box.
	Lubricate front suspension and steering joints. Inspect for looseness and damage.
	Inspect steering gear, linkage and dust covers for wear and security. Notify owner of any deficiencies, including loss of steering preload, for immediate rectification.
	Check and adjust clutch for operating rod free travel.
	Inspect tyres and wheels for irregular wear and damage. Check inflation pressure and torque wheel nuts.
	Check under vehicle for fluid leaks, incl.brakes, fuel, clutch, transmission, shock absorbers and differential.
	Check under vehicle for damage or component looseness.

INTERIOR VEHICLE OPERATIONS

	Check operation of all waring indicators, ignition steering lock, brake and park lights and interior electrical system items and controls. Check all internal lights.
	Check heating, ventilationand demsting system ducts aree clear and operation is satisfactory and controls correctly adjusted.
	Seat belt inspection. Examine webbing condition, buckle operation and retractor mechanism function
	Check steering wheel free play.
	Check brake pedal travel and free play.

EXTERIOR VEHICLE OPERATIONS

	Lubricate door handle pivots, door hinges, striker bolts or plates, hood lock and catch and luggage compartment lock or end gate regulator as required.
	Check vehicle on the road for even braking and steering, transmission operation, engine response and park brake operation. Check mirrors, seat adjustment and transmission shift pattern. Check wiperblade effectiveness.

INTERMEDIATE OIL CHANGES

5,000 km or 3 Months oil change	Intermediate oil change carried out at ..... km on (date)..... Servicing Dealer.....
15,000 km or 9 Months oil change	Intermediate oil change carried out at ..... km on (date)..... Servicing Dealer.....
25,000 km or 15 Months oil change	Intermediate oil change carried out at ..... km on (date)..... Servicing Dealer.....
35,000 km or 21 Months oil change	Intermediate oil change carried out at ..... km on (date)..... Servicing Dealer.....
45,000 km or 27 Months oil change	Intermediate oil change carried out at ..... km on (date)..... Servicing Dealer.....
55,000 km or 33 Months oil change	Intermediate oil change carried out at ..... km on (date)..... Servicing Dealer.....
65,000 km or 39 Months oil change	Intermediate oil change carried out at ..... km on (date)..... Servicing Dealer.....
75,000 km or 45 Months oil change	Intermediate oil change carried out at ..... km on (date)..... Servicing Dealer.....
85,000 km or 51 Months oil change	Intermediate oil change carried out at ..... km on (date)..... Servicing Dealer.....
95,000 km or 57 Months oil change	Intermediate oil change carried out at ..... km on (date)..... Servicing Dealer.....
105,000 km or 63 Months oil change	Intermediate oil change carried out at ..... km on (date)..... Servicing Dealer.....
125,000 km or 69 Months oil change	Intermediate oil change carried out at ..... km on (date)..... Servicing Dealer.....

10,000 km or 6 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 1.3 hours to perform (add 0.5 hours for diesel engine).

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

Additional Services Requested. .....

.....

.....

Signature .....Date .....

Additional Services Performed: .....

.....

.....

.....

Servicing Dealer .....

Date of Service .....

Odometer .....

Signed .....

10,000 km or 6 Month SERVICE VALIDATION

UNDER HOOD OPERATIONS

	Change engine oil (every 5,000 km).
	Check all fluid levels in engine compartment, inc brake, washer, clutch, battery electrolyte, auto transmission, power steering. Check coolant level and inhibitor %, use tester.
	Inspect condition and adjust tension of all engine drive belts. Adjust if necessary using gauge.
	P - check timing belt for cracks, wear and tension.
	Inspect condition and attachment of all hoses in engine compartment. Inspect for fluid leaks, e.g. oil, brake, coolant, fuel, clutch.
	Inspect air cleaner element for restriction and condition. Replace if necessary.
	D - Check injection timing.
	Check wiring harness and terminals for looseness or damage.

UNDER VEHICLE OPERATIONS

	Change engine oil filter.
	Check manual transmission oil level.
	Change front and rear axle oils.
	Lubricate front suspension and steering joints. Inspect for looseness and damage.
	Inspect steering gear, linkage and dust covers for wear and security. Notify owner of any deficiencies, including loss of steering preload, for immediate rectification.
	Lubricate accelerator, transmission shift and clutch linkages as applicable.
	Check parking brake operation and lubricate system. Adjust if necessary.
	Inspect exhaust system and adjacent body areas for open seams or damage.
	Inspect engine and transmission mountings.
	Check and adjust clutch for operating rod free travel.
	Inspect tyres and wheels for irregular wear and damage. Check inflation pressure and torque wheel nuts.
	Check under vehicle for fluid leaks, incl. brakes, fuel, clutch, transmission, shock absorbers and differential.
	Check under vehicle for damage or component looseness.

INTERIOR VEHICLE OPERATIONS

	Check operation of all waring indicators, ignition steering lock, brake and park lights and interior electrical system items and controls. Check all internal lights.
	Check heating, ventilationand demsting system ducts aree clear and operation is satisfactory and controls correctly adjusted.
	Seat belt inspection. Examine webbing condition, buckle operation and retractor mechanism function
	Check steering wheel free play.
	Check brake pedal travel and free play

EXTERIOR VEHICLE OPERATIONS

	Lubricate door handle pivots, door hinges, striker bolts or plates, hood lock and catch and luggage compartment lock or end gate regulator as required.
	Check vehicle on the road for even braking and steering, transmission operation, engine response and park brake operation. Check mirrors, seat adjustment and transmission shift pattern. Check wiperblade effectiveness.

20,000 km or 12 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 2.5 hours to perform (add 0.5 hours if front wheel bearings repacked, subtract 0.5 hours for diesel engine).

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

Additional Services Requested. .....

.....

.....

Signature .....Date .....

Additional Services Performed: .....

.....

.....

.....

Servicing Dealer .....

Date of Service .....

Odometer .....

Signed .....

20,000 km or 12 Month SERVICE VALIDATION

UNDER HOOD OPERATIONS

	Change engine oil (every 5,000 km).
	Check all fluid levels in engine compartment, inc brake, washer, clutch battery electrolyte, auto transmission, power steering. Check coolant level and inhibitor %, use tester.
	Inspect condition and adjust tension of all engine drive belts. Adjust if necessary using gauge.
	P - check timing belt for cracks, wear and tension.
	Inspect condition and attachment of all hoses in engine compartment. Inspect for fluid leaks, e.g. oil, brake, coolant, fuel, clutch.
	Inspect air cleaner element for restriction and condition. Replace if necessary.
	P - Lubricate distributor and clean cap. Check high tension leads. Replace spark plugs. Check ignition timing.
	P - EGR System only. Clean valve and manifold opening. replace if necessary.
	Drain and refill cooling system. Add specified quantity of anti-freeze. Pressure test cooling system and check for leaks. Clean radiator core - check for blockages.
	P - Check tightness of cylinder head bolts.
	Adjust valve clearance.
	Check and adjust if necessary engine idle speed.
	Check wiring harness and terminals for looseness or damage.
	Clean or replace fuel filter as necessary.

UNDER VEHICLE OPERATIONS

	Change engine oil filter.
	Check manual transmission oil level.
	Check front and rear axle oil levels.
	Lubricate front suspension and steering joints. Inspect for looseness and damage.
	Inspect steering gear, linkage and dust covers for wear and security. Notify owner of any deficiencies, including loss of steering preload, for immediate rectification.
	Lubricate accelerator, transmission shift and clutch linkages as applicable.
	Check parking brake operation and lubricate system. Adjust if necessary.
	Inspect exhaust system and adjacent body areas for open seams or damage.
	Inspect engine and transmission mountings.
	Check and adjust clutch for operating rod free travel.
	Check operation of transmission shift linkage. Adjust if necessary.
	Inspect tyres and wheels for irregular wear and damage. Check inflation pressure and torque wheel nuts.
	Inspect brake pads and linings.Inspect front wheel bearings and check adjustment. Repack only if necessary.
	Check under vehicle for fluid leaks, incl. brakes, fuel, clutch, transmission, shock absorbers and differential.
	Check under vehicle for damage or component looseness.
	Check propeller shaft U-joints and splines for wear.

INTERIOR VEHICLE OPERATIONS

	Check operation of all waring indicators, ignition steering lock, brake and park lights and interior electrical system items and controls. Check all internal lights.
	Check heating, ventilationand demsting system ducts aree clear and operation is satisfactory and controls correctly adjusted.
	Seat belt inspection. Examine webbing condition, buckle operation and retractor mechanism function
	Check steering wheel free play.
	Check brake pedal travel and tree play

EXTERIOR VEHICLE OPERATIONS

	Lubricate door handle pivots, door hinges, striker bolts or plates, hood lock and catch and luggage compartment lock or end gate regulator as required.
	Check vehicle on the road for even braking and steering, transmission operation, engine response and park brake operation. Check mirrors, seat adjustment and transmission shift pattern. Check wiperblade effectiveness.

30,000 km or 18 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 1.2 hours to perform (add 0.5 hours for diesel engine).

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

Additional Services Requested. .....

.....

.....

Signature .....Date .....

Additional Services Performed: .....

Servicing Dealer .....

Date of Service .....

Odometer .....

Signed .....

30,000 km or 18 Month SERVICE VALIDATION

UNDER HOOD OPERATIONS

	Change engine oil (every 5,000 km).
	Check all fluid levels in engine compartment, inc brake, washer, clutch, battery electrolyte, auto transmission, power steering. Check coolant level and inhibitor %, use tester.
	Inspect condition and adjust tension of all engine drive belts. Adjust if necessary using gauge.
	P - check timing belt for cracks, wear and tension.
	Inspect condition and attachment of all hoses in engine compartment. Inspect for fluid leaks, e.g. oil, brake, coolant, fuel, clutch.
	Inspect air cleaner element for restriction and condition. Replace if necessary.
	D - Check injection timing.
	Check wiring harness and terminals for looseness or damage.

UNDER VEHICLE OPERATIONS

	Change engine oil filter.
	Check manual transmission oil level.
	Check front and rear axle oil levels.
	Lubricate front suspension and steering joints. Inspect for looseness and damage.
	Inspect steering gear, linkage and dust covers for wear and security. Notify owner of any deficiencies, including loss of steering preload, for immediate rectification.
	Lubricate accelerator, transmission shift and clutch linkages as applicable.
	Check parking brake operation and lubricate system. Adjust if necessary.
	Inspect exhaust system and adjacent body areas for open seams or damage.
	Inspect engine and transmission mountings.
	Check and adjust clutch for operating rod free travel.
	Inspect tyres and wheels for irregular wear and damage. Check inflation pressure and torque wheel nuts.
	Check under vehicle for fluid leaks, incl. brakes, fuel, clutch, transmission, shock absorbers and differential.
	Check under vehicle for damage or component looseness.

INTERIOR VEHICLE OPERATIONS

	Check operation of all waring indicators, ignition steering lock, brake and park lights and interior electrical system items and controls. Check all internal lights.
	Check heating, ventilationand demsting system ducts aree clear and operation is satisfactory and controls correctly adjusted.
	Seat belt inspection. Examine webbing condition, buckle operation and retractor mechanism function
	Check steering wheel free play.
	Check brake pedal travel and free play

EXTERIOR VEHICLE OPERATIONS

	Lubricate door handle pivots, door hinges, striker bolts or plates, hood lock and catch and luggage compartment lock or end gate regulator as required.
	Check vehicle on the road for even braking and steering, transmission operation, engine response and park brake operation. Check mirrors, seat adjustment and transmission shift pattern. Check wiperblade effectiveness.

40,000 km or 24 months Service Coupon

8-16

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 3.9 hours to perform (subtract 0.6 hours for diesel engine).

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

Additional Services Requested. .....

.....

.....

Signature .....Date .....

UNDER HOOD OPERATIONS

	Change engine oil (every 5,000 km).
	Check all fluid levels in engine compartment, inc brake, washer, clutch battery electrolyte, auto transmission, power steering. Check coolant level and inhibitor %, use tester.
	Inspect condition and adjust tension of all engine drive belts. Adjust if necessary using gauge.
	P - check timing belt for cracks, wear and tension.
	Inspect condition and attachment of all hoses in engine compartment. Inspect for fluid leaks, e.g. oil, brake, coolant, fuel, clutch.
	Inspect air cleaner element for restriction and condition. Replace if necessary.
	P - Lubricate distributor and clean cap. Check high tension leads. Replace spark plugs. Check ignition timing.
	P - EGR System only. Clean valve and manifold opening. replace if necessary.
	Serviceable PCV Valves - Dismantle, clean and reassemble. Disposable PCV Valves - Test and replace if necessary.
	Drain and refill cooling system. Add specified quantity of anti-freeze. Pressure test cooling system and check for leaks. Clean radiator core - check for blockages.
	P - Check tightness of cylinder head bolts.
	Adjust valve clearance.
	Check and adjust if necessary engine idle speed.
	P - Evaporative control system. Check all fuel and vapour lines and hoses for proper connections and correct routing as will as condition. Remove canister and check for cracks or damage.
	Check wiring harness and terminals for looseness or damage.
	Clean or replace fuel filter as necessary.

Additional Services Performed: .....

.....

.....

.....

Servicing Dealer .....

Date of Service .....

Odometer .....

Signed .....

40,000 km or 24 Month SERVICE VALIDATION

UNDER VEHICLE OPERATIONS

	Change engine oil filter.
	Change lubrication in manual transmission and transfer box.
	Change front and rear axle oils.
	Lubricate front suspension and steering joints. Inspect for looseness and damage.
	Inspect steering gear, linkage and dust covers for wear and security. Notify owner of any deficiencies, including loss of steering preload, for immediate rectification.
	Lubricate accelerator, transmission shift and clutch linkages as applicable.
	Check parking brake operation and lubricate system. Adjust if necessary.
	Inspect exhaust system and adjacent body areas for open seams or damage.
	Inspect engine and transmission mountings.
	Check and adjust clutch for operating rod free travel.
	Check operation of transmission shift linkage. Adjust if necessary.
	Inspect tyres and wheels for irregular wear and damage. Check inflation pressure and torque wheel nuts.
	Inspect brake pads and linings. Repack front wheel bearings.
	Check under vehicle for fluid leaks, incl. brakes, fuel, clutch, transmission, shock absorbers and differential.
	Check under vehicle for damage or component looseness.
	Check propeller shaft U-joints and splines for wear.
	Change power steering fluid.
	Change brake fluid.

INTERIOR VEHICLE OPERATIONS

	Check operation of all waring indicators, ignition steering lock, brake and park lights and interior electrical system items and controls. Check all internal lights.
	Check heating, ventilationand demsting system ducts aree clear and operation is satisfactory and controls correctly adjusted.
	Seat belt inspection. Examine webbing condition, buckle operation and retractor mechanism function
	Check steering wheel free play.
	Check brake pedal travel and free play

EXTERIOR VEHICLE OPERATIONS

	Lubricate door handle pivots, door hinges, striker bolts or plates, hood lock and catch and luggage compartment lock or end gate regulator as required.
	Check vehicle on the road for even braking and steering, transmission operation, engine response and park brake operation. Check mirrors, seat adjustment and transmission shift pattern. Check wiperblade effectiveness.

50,000 km or 30 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 1.2 hours to perform (add 1.6 hours for diesel engine).

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

Additional Services Requested. .....

.....

.....

Signature .....Date .....

Additional Services Performed: .....

Servicing Dealer .....

Date of Service .....

Odometer .....

Signed .....

50,000 km or 30 Month SERVICE VALIDATION

UNDER HOOD OPERATIONS

	Change engine oil (every 5,000 km).
	Check all fluid levels in engine compartment, inc brake, washer, clutch, battery electrolyte, auto transmission, power steering. Check coolant level and inhibitor %, use tester.
	Inspect condition and adjust tension of all engine drive belts. Adjust if necessary using gauge.
	P - check timing belt for cracks, wear and tension.
	Inspect condition and attachment of all hoses in engine compartment. Inspect for fluid leaks, e.g. oil, brake, coolant, fuel, clutch.
	Inspect air cleaner element for restriction and condition. Replace if necessary.
	D - Check injection pressure and spraying condition
	D - Check injection timing.
	Check wiring harness and terminals for looseness or damage.

UNDER VEHICLE OPERATIONS

	Change engine oil filter.
	Check manual transmission oil level.
	Check front and rear axle oil levels.
	Lubricate front suspension and steering joints. Inspect for looseness and damage.
	Inspect steering gear, linkage and dust covers for wear and security. Notify owner of any deficiencies, including loss of steering preload, for immediate rectification.
	Lubricate accelerator, transmission shift and clutch linkages as applicable.
	Check parking brake operation and lubricate system. Adjust if necessary.
	Inspect exhaust system and adjacent body areas for open seams or damage.
	Inspect engine and transmission mountings.
	Check and adjust clutch for operating rod free travel.
	Inspect tyres and wheels for irregular wear and damage. Check inflation pressure and torque wheel nuts.
	Check under vehicle for fluid leaks, incl. brakes, fuel, clutch, transmission, shock absorbers and differential. Check under vehicle for damage or component looseness.

INTERIOR VEHICLE OPERATIONS

	Check operation of all waring indicators, ignition steering lock, brake and park lights and interior electrical system items and controls. Check all internal lights.
	Check heating, ventilationand demsting system ducts aree clear and operation is satisfactory and controls correctly adjusted.
	Seat belt inspection. Examine webbing condition, buckle operation and retractor mechanism function
	Check steering wheel free play.
	Check brake pedal travel and free play

EXTERIOR VEHICLE OPERATIONS

	Lubricate door handle pivots, door hinges, striker bolts or plates, hood lock and catch and luggage compartment lock or end gate regulator as required.
	Check vehicle on the road for even braking and steering, transmission operation, engine response and park brake operation. Check mirrors, seat adjustment and transmission shift pattern. Check wiperblade effectiveness.

60,000 km or 36 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 2.5 hours to perform (add 0.5 hours if front wheel bearings repacked, subtract 0.6 hours for diesel engine).

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

Additional Services Requested. .....

.....

.....

Signature .....Date .....

UNDER HOOD OPERATIONS

	Change engine oil (every 5,000 km).
	Check all fluid levels in engine compartment, inc brake, washer, clutch battery electrolyte, auto transmission, power steering. Check coolant level and inhibitor %, use tester.
	Inspect condition and adjust tension of all engine drive belts. Adjust if necessary using gauge.
	P - check timing belt for cracks, wear and tension.
	Inspect condition and attachment of all hoses in engine compartment. Inspect for fluid leaks, e.g. oil, brake, coolant, fuel, clutch.
	Inspect air cleaner element for restriction and condition. Replace if necessary.
	P - Lubricate distributor and clean cap. Check high tension leads. Replace spark plugs. Check ignition timing.
	P - EGR System only. Clean valve and manifold opening. replace if necessary.
	Serviceable PCV Valves - Dismantle, clean and reassemble. Disposable PCV Valves - Test and replace if necessary.
	Drain and refill cooling system. Add specified quantity of anti-freeze. Pressure test cooling system and check for leaks. Clean radiator core - check for blockages.
	P - Check tightness of cylinder head bolts.
	Adjust valve clearance.
	Check and adjust if necessary engine idle speed.
	P - Evaporative control system. Check all fuel and vapour lines and hoses for proper connections and correct routing as will as condition. Remove canister and check for cracks or damage.
	Check wiring harness and terminals for looseness or damage.
	Clean or replace fuel filter as necessary.

Additional Services Performed: .....

.....

.....

.....

Servicing Dealer .....

Date of Service .....

Odometer .....

Signed .....

60,000 km or 36 Month SERVICE VALIDATION

UNDER VEHICLE OPERATIONS

	Change engine oil filter.
	Check manual transmission oil level.
	Check front and rear axle oil levels.
	Lubricate front suspension and steering joints. Inspect for looseness and damage.
	Inspect steering gear, linkage and dust covers for wear and security. Notify owner of any deficiencies, including loss of steering preload, for immediate rectification.
	Lubricate accelerator, transmission shift and clutch linkages as applicable.
	Check parking brake operation and lubricate system. Adjust if necessary.
	Inspect exhaust system and adjacent body areas for open seams or damage.
	Inspect engine and transmission mountings.
	Check and adjust clutch for operating rod free travel.
	Check operation of transmission shift linkage. Adjust if necessary.
	Inspect tyres and wheels for irregular wear and damage. Check inflation pressure and torque wheel nuts.
	Inspect brake pads and linings.Inspect front wheel bearings and check adjustment. Repack only if necessary.
	Check under vehicle for fluid leaks, incl. brakes, fuel, clutch, transmission, shock absorbers and differential.
	Check under vehicle for damage or component looseness.
	Check propeller shaft U-joints and splines for wear.

INTERIOR VEHICLE OPERATIONS

	Check operation of all waring indicators, ignition steering lock, brake and park lights and interior electrical system items and controls. Check all internal lights.
	Check heating, ventilationand demsting system ducts aree clear and operation is satisfactory and controls correctly adjusted.
	Seat belt inspection. Examine webbing condition, buckle operation and retractor mechanism function
	Check steering wheel free play.
	Check brake pedal travel and free play

EXTERIOR VEHICLE OPERATIONS

	Lubricate door handle pivots, door hinges, striker bolts or plates, hood lock and catch and luggage compartment lock or end gate regulator as required.
	Check vehicle on the road for even braking and steering, transmission operation, engine response and park brake operation. Check mirrors, seat adjustment and transmission shift pattern. Check wiperblade effectiveness.

70,000 km or 42 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 1.2 hours to perform (add 0.5 hours for diesel engine).

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

Additional Services Requested.....

.....

.....

Signature .....Date .....

UNDER HOOD OPERATIONS

	Change engine oil (every 5,000 km).
	Check all fluid levels in engine compartment, inc brake, washer, clutch, battery electrolyte, auto transmission, power steering. Check coolant level and inhibitor %, use tester.
	Inspect condition and adjust tension of all engine drive belts. Adjust if necessary using gauge.
	P - check timing belt for cracks, wear and tension.
	Inspect condition and attachment of all hoses in engine compartment. Inspect for fluid leaks, e.g. oil, brake, coolant, fuel, clutch.
	Inspect air cleaner element for restriction and condition. Replace if necessary.
	D - Check injection timing.
	Check wiring harness and terminals for looseness or damage.

Additional Services Performed: .....

Servicing Dealer .....

Date of Service .....

Odometer .....

Signed .....

70,000 km or 42 Month SERVICE VALIDATION

UNDER VEHICLE OPERATIONS

	Change engine oil filter.
	Check manual transmission oil level.
	Check front and rear axle oil levels.
	Lubricate front suspension and steering joints. Inspect for looseness and damage.
	Inspect steering gear, linkage and dust covers for wear and security. Notify owner of any deficiencies, including loss of steering preload, for immediate rectification.
	Lubricate accelerator, transmission shift and clutch linkages as applicable.
	Check parking brake operation and lubricate system. Adjust if necessary.
	Inspect exhaust system and adjacent body areas for open seams or damage.
	Inspect engine and transmission mountings.
	Check and adjust clutch for operating rod free travel.
	Inspect tyres and wheels for irregular wear and damage. Check inflation pressure and torque wheel nuts.
	Check under vehicle for fluid leaks, incl. brakes, fuel, clutch, transmission, shock absorbers and differential.
	Check under vehicle for damage or component looseness.

INTERIOR VEHICLE OPERATIONS

	Check operation of all waring indicators, ignition steering lock, brake and park lights and interior electrical system items and controls. Check all internal lights.
	Check heating, ventilationand demsting system ducts aree clear and operation is satisfactory and controls correctly adjusted.
	Seat belt inspection. Examine webbing condition, buckle operation and retractor mechanism function
	Check steering wheel free play.
	Check brake pedal travel and free play

EXTERIOR VEHICLE OPERATIONS

	Lubricate door handle pivots, door hinges, striker bolts or plates, hood lock and catch and luggage compartment lock or end gate regulator as required.
	Check vehicle on the road for even braking and steering, transmission operation, engine response and park brake operation. Check mirrors, seat adjustment and transmission shift pattern. Check wiperblade effectiveness.

80,000 km or 48 months Service Coupon

8-24

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 3.9 hours to perform (subtract 0.6 hours for diesel engine).

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

Additional Services Requested. .....

.....

.....

Signature .....Date.....

UNDER HOOD OPERATIONS

	Change engine oil (every 5,000 km).
	Check all fluid levels in engine compartment, inc brake, washer, clutch battery electrolyte, auto transmission, power steering. Check coolant level and inhibitor %, use tester.
	Inspect condition and adjust tension of all engine drive belts. Adjust if necessary using gauge.
	P - check timing belt for cracks, wear and tension.
	Inspect condition and attachment of all hoses in engine compartment. Inspect for fluid leaks, e.g. oil, brake, coolant, fuel, clutch.
	Inspect air cleaner element for restriction and condition. Replace if necessary.
	P - Lubricate distributor and clean cap. Check high tension leads. Replace spark plugs. Check ignition timing.
	P - EGR System only. Clean valve and manifold opening. replace if necessary.
	Serviceable PCV Valves - Dismantle, clean and reassemble. Disposable PCV Valves - Test and replace if necessary.
	Drain and refill cooling system. Add specified quantity of anti-freeze. Pressure test cooling system and check for leaks. Clean radiator core - check for blockages.
	P - Check tightness of cylinder head bolts.
	Adjust valve clearance.
	Check and adjust if necessary engine idle speed.
	P - Evaporative control system. Check all fuel and vapour lines and hoses for proper connections and correct routing as will as condition. Remove canister and check for cracks or damage.
	Check wiring harness and terminals for looseness or damage.
	Clean or replace fuel filter as necessary.

Additional Services Performed: .....

.....

.....

Servicing Dealer .....

Date of Service .....

Odometer .....

Signed .....

80,000 km or 48 Month SERVICE VALIDATION

UNDER VEHICLE OPERATIONS

	Change engine oil filter.
	Change lubrication in manual transmission and transfer box.
	Change front and rear axle oils.
	Lubricate front suspension and steering joints. Inspect for looseness and damage.
	Inspect steering gear, linkage and dust covers for wear and security. Notify owner of any deficiencies, including loss of steering preload, for immediate rectification.
	Lubricate accelerator, transmission shift and clutch linkages as applicable.
	Check parking brake operation and lubricate system. Adjust if necessary.
	Inspect exhaust system and adjacent body areas for open seams or damage.
	Inspect engine and transmission mountings.
	Check and adjust clutch for operating rod free travel.
	Check operation of transmission shift linkage. Adjust if necessary.
	Inspect tyres and wheels for irregular wear and damage. Check inflation pressure and torque wheel nuts.
	Inspect brake pads and linings. Repack front wheel bearings.
	Check under vehicle for fluid leaks, incl. brakes, fuel, clutch, transmission, shock absorbers and differential.
	Check under vehicle for damage or component looseness.
	Check propeller shaft U-joints and splines for wear.
	Change power steering fluid.
	Change brake fluid.

INTERIOR VEHICLE OPERATIONS

	Check operation of all waring indicators, ignition steering lock, brake and park lights and interior electrical system items and controls. Check all internal lights.
	Check heating, ventilationand demsting system ducts aree clear and operation is satisfactory and controls correctly adjusted.
	Seat belt inspection. Examine webbing condition, buckle operation and retractor mechanism function
	Check steering wheel free play.
	Check brake pedal travel and free play

EXTERIOR VEHICLE OPERATIONS

	Lubricate door handle pivots, door hinges, striker bolts or plates, hood lock and catch and luggage compartment lock or end gate regulator as required.
	Check vehicle on the road for even braking and steering, transmission operation, engine response and park brake operation. Check mirrors, seat adjustment and transmission shift pattern. Check wiperblade effectiveness.

90,000 km or 54 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 1.2 hours to perform (add 0.5 hours for diesel engine).

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

Additional Services Requested. .....

.....

.....

Signature .....Date .....

Additional Services Performed: .....

.....

.....

.....

Servicing Dealer .....

Date of Service .....

Odometer .....

Signed .....

90,000 km or 54 Month SERVICE VALIDATION

UNDER HOOD OPERATIONS

	Change engine oil (every 5,000 km).
	Check all fluid levels in engine compartment, inc brake, washer, clutch, battery electrolyte, auto transmission, power steering. Check coolant level and inhibitor %, use tester.
	Inspect condition and adjust tension of all engine drive belts. Adjust if necessary using gauge.
	P - check timing belt for cracks, wear and tension.
	Inspect condition and attachment of all hoses in engine compartment. Inspect for fluid leaks, e.g. oil, brake, coolant, fuel, clutch.
	Inspect air cleaner element for restriction and condition. Replace if necessary.
	D - Check injection timing.
	Check wiring harness and terminals for looseness or damage.

UNDER VEHICLE OPERATIONS

	Change engine oil filter.
	Check manual transmission oil level.
	Check front and rear axle oil levels.
	Lubricate front suspension and steering joints. Inspect for looseness and damage.
	Inspect steering gear, linkage and dust covers for wear and security. Notify owner of any deficiencies, including loss of steering preload, for immediate rectification.
	Lubricate accelerator, transmission shift and clutch linkages as applicable.
	Check parking brake operation and lubricate system. Adjust if necessary.
	Inspect exhaust system and adjacent body areas for open seams or damage.
	Inspect engine and transmission mountings.
	Check and adjust clutch for operating rod free travel.
	Inspect tyres and wheels for irregular wear and damage. Check inflation pressure and torque wheel nuts.
	Check under vehicle for fluid leaks, incl. brakes, fuel, clutch, transmission, shock absorbers and differential.
	Check under vehicle for damage or component looseness.

INTERIOR VEHICLE OPERATIONS

	Check operation of all waring indicators, ignition steering lock, brake and park lights and interior electrical system items and controls. Check all internal lights.
	Check heating, ventilationand demsting system ducts aree clear and operation is satisfactory and controls correctly adjusted.
	Seat belt inspection. Examine webbing condition, buckle operation and retractor mechanism function
	Check steering wheel free play.
	Check brake pedal travel and free play

EXTERIOR VEHICLE OPERATIONS

	Lubricate door handle pivots, door hinges, striker bolts or plates, hood lock and catch and luggage compartment lock or end gate regulator as required.
	Check vehicle on the road for even braking and steering, transmission operation, engine response and park brake operation. Check mirrors, seat adjustment and transmission shift pattern. Check wiperblade effectiveness.

100,000 km or 60 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 2.5 hours to perform (add 0.5 hours if front wheel bearings repacked).

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

Additional Services Requested.....

.....

Signature .....Date .....

UNDER HOOD OPERATIONS

	Change engine oil (every 5,000 km).
	Check all fluid levels in engine compartment, inc brake, washer, clutch battery electrolyte, auto transmission, power steering. Check coolant level and inhibitor %, use tester.
	Inspect condition and adjust tension of all engine drive belts. Adjust if necessary using gauge.
	P - check timing belt for cracks, wear and tension.
	Inspect condition and attachment of all hoses in engine compartment. Inspect for fluid leaks, e.g. oil, brake, coolant, fuel, clutch.
	Inspect air cleaner element for restriction and condition. Replace if necessary.
	D - Check injection pressure and spraying condition.
	P - Lubricate distributor and clean cap. Check high tension leads. Replace spark plugs. Check ignition timing.
	P - EGR System only. Clean valve and manifold opening. replace if necessary.
	Serviceable PCV Valves - Dismantle, clean and reassemble. Disposable PCV Valves - Test and replace if necessary.
	Drain and refill cooling system. Add specified quantity of anti-freeze. Pressure test cooling system and check for leaks. Clean radiator core - check for blockages.
	P - Check tightness of cylinder head bolts.
	Adjust valve clearance.
	Check and adjust if necessary engine idle speed.
	P - Evaporative control system. Check all fuel and vapour lines and hoses for proper connections and correct routing as will as condition. Remove canister and check for cracks or damage.
	Check wiring harness and terminals for looseness or damage.
	Clean or replace fuel filter as necessary.

Additional Services Performed: .....

Servicing Dealer .....

Date of Service .....

Odometer .....

Signed .....

100,000 km or 60 Month SERVICE VALIDATION

UNDER VEHICLE OPERATIONS

	Change engine oil filter.
	Check manual transmission oil level.
	Check front and rear axle oil levels.
	Lubricate front suspension and steering joints. Inspect for looseness and damage.
	Inspect steering gear, linkage and dust covers for wear and security. Notify owner of any deficiencies, including loss of steering preload, for immediate rectification.
	Lubricate accelerator, transmission shift and clutch linkages as applicable.
	Check parking brake operation and lubricate system. Adjust if necessary.
	Inspect exhaust system and adjacent body areas for open seams or damage.
	Inspect engine and transmission mountings.
	Check and adjust clutch for operating rod free travel.
	Check operation of transmission shift linkage. Adjust if necessary.
	Inspect tyres and wheels for irregular wear and damage. Check inflation pressure and torque wheel nuts.
	Inspect brake pads and linings.Inspect front wheel bearings and check adjustment. Repack only if necessary.
	Check under vehicle for fluid leaks, incl. brakes, fuel, clutch, transmission, shock absorbers and differential.
	Check under vehicle for damage or component looseness.
	Check propeller shaft U-joints and splines for wear.

INTERIOR VEHICLE OPERATIONS

	Check operation of all waring indicators, ignition steering lock, brake and park lights and interior electrical system items and controls. Check all internal lights.
	Check heating, ventilationand demsting system ducts aree clear and operation is satisfactory and controls correctly adjusted.
	Seat belt inspection. Examine webbing condition, buckle operation and retractor mechanism function
	Check steering wheel free play.
	Check brake pedal travel and free play

EXTERIOR VEHICLE OPERATIONS

	Lubricate door handle pivots, door hinges, striker bolts or plates, hood lock and catch and luggage compartment lock or end gate regulator as required.
	Check vehicle on the road for even braking and steering, transmission operation, engine response and park brake operation. Check mirrors, seat adjustment and transmission shift pattern. Check wiperblade effectiveness.

110,000 km or 66 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 1.2 hours to perform (add 0.5 hours for diesel engine).

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

Additional Services Requested. .....

.....

.....

Signature .....Date .....

Additional Services Performed: .....

.....

.....

.....

Servicing Dealer .....

Date of Service .....

Odometer .....

Signed .....

110,000 km or 66 Month SERVICE VALIDATION

UNDER HOOD OPERATIONS

	Change engine oil (every 5,000 km).
	Check all fluid levels in engine compartment, inc brake, washer, clutch, battery electrolyte, auto transmission, power steering. Check coolant level and inhibitor %, use tester.
	Inspect condition and adjust tension of all engine drive belts. Adjust if necessary using gauge.
	P - check timing belt for cracks, wear and tension.
	Inspect condition and attachment of all hoses in engine compartment. Inspect for fluid leaks, e.g. oil, brake, coolant, fuel, clutch.
	Inspect air cleaner element for restriction and condition. Replace if necessary.
	D - Check injection timing.
	Check wiring harness and terminals for looseness or damage.

UNDER VEHICLE OPERATIONS

	Change engine oil filter.
	Check manual transmission oil level.
	Check front and rear axle oil levels.
	Lubricate front suspension and steering joints. Inspect for looseness and damage.
	Inspect steering gear, linkage and dust covers for wear and security. Notify owner of any deficiencies, including loss of steering preload, for immediate rectification.
	Lubricate accelerator, transmission shift and clutch linkages as applicable.
	Check parking brake operation and lubricate system. Adjust if necessary.
	Inspect exhaust system and adjacent body areas for open seams or damage.
	Inspect engine and transmission mountings.
	Check and adjust clutch for operating rod free travel.
	Inspect tyres and wheels for irregular wear and damage. Check inflation pressure and torque wheel nuts.
	Check under vehicle for fluid leaks, incl. brakes, fuel, clutch, transmission, shock absorbers and differential.
	Check under vehicle for damage or component looseness.

INTERIOR VEHICLE OPERATIONS

	Check operation of all waring indicators, ignition steering lock, brake and park lights and interior electrical system items and controls. Check all internal lights.
	Check heating, ventilationand demsting system ducts aree clear and operation is satisfactory and controls correctly adjusted.
	Seat belt inspection. Examine webbing condition, buckle operation and retractor mechanism function
	Check steering wheel free play.
	Check brake pedal travel and free play

EXTERIOR VEHICLE OPERATIONS

	Lubricate door handle pivots, door hinges, striker bolts or plates, hood lock and catch and luggage compartment lock or end gate regulator as required.
	Check vehicle on the road for even braking and steering, transmission operation, engine response and park brake operation. Check mirrors, seat adjustment and transmission shift pattern. Check wiperblade effectiveness.

120,000 km or 72 months Service Coupon

HOLDEN WISE
QUALITY SERVICE & PARTS

I authorise performance of the services specified on this coupon. I understand that I will be charged for this work which will take approx. 3.9 hours to perform (add 0.6 hours for diesel engine).

There will also be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

Additional Services Requested. .....

.....

.....

Signature .....Date .....

UNDER HOOD OPERATIONS

	Change engine oil (every 5,000 km).
	Check all fluid levels in engine compartment, inc brake, washer, clutch battery electrolyte, auto transmission, power steering. Check coolant level and inhibitor %, use tester.
	Inspect condition and adjust tension of all engine drive belts. Adjust if necessary using gauge.
	P - check timing belt for cracks, wear and tension.
	Inspect condition and attachment of all hoses in engine compartment. Inspect for fluid leaks, e.g. oil, brake, coolant, fuel, clutch.
	Inspect air cleaner element for restriction and condition. Replace if necessary.
	P - Lubricate distributor and clean cap. Check high tension leads. Replace spark plugs. Check ignition timing.
	P - EGR System only. Clean valve and manifold opening. replace if necessary.
	Serviceable PCV Valves - Dismantle, clean and reassemble. Disposable PCV Valves - Test and replace if necessary.
	Drain and refill cooling system. Add specified quantity of anti-freeze. Pressure test cooling system and check for leaks. Clean radiator core - check for blockages.
	P - Check tightness of cylinder head bolts.
	Adjust valve clearance.
	Check and adjust if necessary engine idle speed.
	P - Evaporative control system. Check all fuel and vapour lines and hoses for proper connections and correct routing as will as condition. Remove canister and check for cracks or damage.
	Check wiring harness and terminals for looseness or damage.
	Clean or replace fuel filter as necessary.

120,000 km or 72 Month SERVICE VALIDATION

Servicing Dealer .....

Date of Service .....

Odometer .....

Signed .....

Additional Services Performed:

.....

.....

.....

UNDER VEHICLE OPERATIONS

	Change engine oil filter.
	Change lubrication in manual transmission and transfer box.
	Change front and rear axle oils.
	Lubricate front suspension and steering joints. Inspect for looseness and damage.
	Inspect steering gear, linkage and dust covers for wear and security. Notify owner of any deficiencies, including loss of steering preload, for immediate rectification.
	Lubricate accelerator, transmission shift and clutch linkages as applicable.
	Check parking brake operation and lubricate system. Adjust if necessary.
	Inspect exhaust system and adjacent body areas for open seams or damage.
	Inspect engine and transmission mountings.
	Check and adjust clutch for operating rod free travel.
	Check operation of transmission shift linkage. Adjust if necessary.
	Inspect tyres and wheels for irregular wear and damage. Check inflation pressure and torque wheel nuts.
	Inspect brake pads and linings. Repack front wheel bearings.
	Check under vehicle for fluid leaks, incl. brakes, fuel, clutch, transmission, shock absorbers and differential.
	Check under vehicle for damage or component looseness.
	Check propeller shaft U-joints and splines for wear.
	Change power steering fluid.
	Change brake fluid.

INTERIOR VEHICLE OPERATIONS

	Check operation of all waring indicators, ignition steering lock, brake and park lights and interior electrical system items and controls. Check all internal lights.
	Check heating, ventilationand demsting system ducts aree clear and operation is satisfactory and controls correctly adjusted.
	Seat belt inspection. Examine webbing condition, buckle operation and retractor mechanism function
	Check steering wheel free play.
	Check brake pedal travel and free play

EXTERIOR VEHICLE OPERATIONS

	Lubricate door handle pivots, door hinges, striker bolts or plates, hood lock and catch and luggage compartment lock or end gate regulator as required.
	Check vehicle on the road for even braking and steering, transmission operation, engine response and park brake operation. Check mirrors, seat adjustment and transmission shift pattern. Check wiperblade effectiveness.

To ensure continued interest in your vehicle, Holden's requests that owners who change their name or address and subsequent owners who purchase the vehicle fill in and mail one of the attached notices. Please forward to the address shown on the reverse side of the notice.

Notice of Name/Address Ownership Change

PLEASE TICK ☑ APPROPRIATE SQUARE
☐ NAME/ADDRESS CHANGE
☐ SUBSEQUENT OWNER

Owner's Name Mr. Mrs. Miss .....

Address .....

Town.....

State .....

Registration No. .....

Vehicle Identification Number (VIN) .....

(Refer Chapter 7 for location of V.I.N.)

Notice of Name/Address Ownership Change

PLEASE TICK ☑ APPROPRIATE SQUARE
☐ NAME/ADDRESS CHANGE
☐ SUBSEQUENT OWNER

Owner's Name Mr. Mrs. Miss .....

Address .....

Town.....

State .....

Registration No. .....

Vehicle Identification Number (VIN) .....

(Refer Chapter 7 for location of V.I.N.)

Place in an envelope and mail to:

The Manager - Warranty Administration
Service Department
Holden's Motor Company
Box 548D, G.P.O.
Melbourne,
Victoria, 3001.

Place in an envelope and mail to:

The Manager - Warranty Administration
Service Department
Holden's Motor Company
Box 548D, G.P.O.
Melbourne,
Victoria, 3001.

To ensure continued interest in your vehicle, Holden's requests that owners who change their name or address and subsequent owners who purchase the vehicle fill in and mail one of the attached notices. Please forward to the address shown on the reverse side of the notice.

Notice of Name/Address Ownership Change

PLEASE TICK ☑ APPROPRIATE SQUARE
☐ NAME/ADDRESS CHANGE
☐ SUBSEQUENT OWNER

Owner's Name Mr. Mrs. Miss .....

Address .....

Town.....

State .....

Registration No. .....

Vehicle Identification Number (VIN) .....

(Refer Chapter 7 for location of V.I.N.)

Notice of Name/Address Ownership Change

PLEASE TICK ☑ APPROPRIATE SQUARE
☐ NAME/ADDRESS CHANGE
☐ SUBSEQUENT OWNER

Owner's Name Mr. Mrs. Miss .....

Address .....

Town.....

State .....

Registration No. .....

Vehicle Identification Number (VIN) .....

(Refer Chapter 7 for location of V.I.N.)

Place in an envelope and mail to:

The Manager - Warranty Administration
Service Department
Holden's Motor Company
Box 548D, G.P.O.
Melbourne,
Victoria, 3001.

Place in an envelope and mail to:

The Manager - Warranty Administration
Service Department
Holden's Motor Company
Box 548D, G.P.O.
Melbourne,
Victoria, 3001.

INDEX

Accidents 4-1
Air conditioning 1-10
Air pressures (tyres) 6-7
Antenna 2-6
Anti-freeze fluid 6-3
Ash tray 1-15
Automatic transmission
  Operation 3-6
  Fluid level 6-4

Battery (when flat) 4-9
Bonnet release 1-16
Brakes
  Precautions 3-4
  Fluid level 6-6
  Specifications 7-2
  Warning light 1-3
  Park brake 1-8
Bulbs (replacement) 6-11

Capacities (fluid) 7-1
Caravan & trailer towing 3-10
Carbon monoxide warning 3-1
Cassette 1-13
Check engine light 1-4
Child restraints 2-4
Cigarette lighter 1-15
Cleaning of vehicle 6-14
Clock 1-8
Cooling system
  Fluid level 6-3
  Overheating 4-7
  Temperature gauge 1-1
Customer assistance 5-6

Dealers (Authorised Holden) 5-7
Diesel
  Bleeding fuel system 4-12
  Draining water separator 4-11
  Glow plug 1-4
  Engine starting 3-3
  Idle control knob 1-7
  Warning lights- 1-4
  Engine data 7-1
Dimensions 7-3
Dimming instruments 1-2
Dipping (headlights) 1-6
Dipstick 6-1
Dome light
  Bulb replacement 6-12
  Operation 2-6
Door locks 2-1

Emission control system 7-4
Engine
  Cooling system 6-3
  Identification number 7-5
  Overheating 4-7
  Specifications 7-1
  Starting 3-2
  Warning light 1-4
Engine oil
  Capacity 7-1
  Checking levels 6-1
  Consumption notes 6-2
  Pressure light 1-3
  Pressure gauge 1-2
Exhaust gas warning 3-1

Flashers
  Hazard warning 1-8
  Turn signal 1-6
Flat tyre 4-5
Flooded engine 3-2
Fluid capacities 7-1
Fluid levels
  Automatic transmission 6-4
  Brake 6-6
  Clutch 6-6
  Coolant 6-3
  Oil 6-1
  Power Steering 6-5
  Windscreen washer 6-5
Four wheel drive 3-8
Fuel
  Bleeding (diesel) 4-12
  Draining water from (diesel) 4-11
  Economy tips 3-12
  Gauge 1-1
  Refilling ..... rear cover
  Warning light 1-3
Fumes (petrol) caution 3-1
Fuses 6-13

Gear ratios 7-2
Generator warning light 1-3
Glow plug (diesel) 1-4
Glovebox 1-15
G.V.M. 3-10

Hand brake 1-8
Hazard warning flashers 1-8
Heater controls 1-9
Headlamps
  Bulb replacement 6-11
  Switch 1-6
High beam indicator light 1-3
Holden Dealers 5-7
Hood 1-16
Horn 1-8
Hubs 3-8

Identification numbers 7-5
Idle control (diesel) 1-8
Ignition switch 1-7
Ignition timing 7-4
Indicators (turn signals) 1-6
Indicator/warning lights 1-3
Infant & child restraints 2-4
Inflation (tyres) 6-7

INDEX

Instrument panel 1-0
Interior (dome) light 2-6

Jack 4-4
Jump starting 4-9

Keys 2-1
Kerb weight 3-10

License plate light 6-12
Lights
  Bulb replacement 6-11
  Instrument panel 1-3
  Headlight switch 1-6
  Interior light 2-6
Loading information 3-10
Locks
  Bonnet 1-16
  Door 2-1
  Fuel filler 2-1
  Glovebox 1-15
  Ignition 1-7
Lubricants 7-3

Maintenance schedule 8-1
Manuals (service) 6-10
Manual transmission
  Fluid capacity 7-2
  Operation 3-5
Mirrors 2-5
Model identifications 7-6

New vehicle running-in 3-12

Octane rating (fuel ..... rear cover
OD (overdrive) light 1-4
Oil
  Capacity 7-1
  Gauge 1-2
  Level 6-1
  Low pressure warning 1-3
Overheating 4-7
Owner responsibility
  Emission controls 7-4
  Weekly checks 6-0
  Maintenance service 8-1

Paintwork cleaning 6-14
Park brake
  Bulb replacement 6-11
  Lever 1-8
Parking 3-1
Petrol ..... rear cover
Power steering
  Fluid level 6-5
  Precaution 3-4

Push starting 4-9

Radiator ..... - See "Cooling system"
Radio 1-11
Rear axle 7-2
Rear vision mirrors 2-5
Restraints 2-3
Running-in 3-12

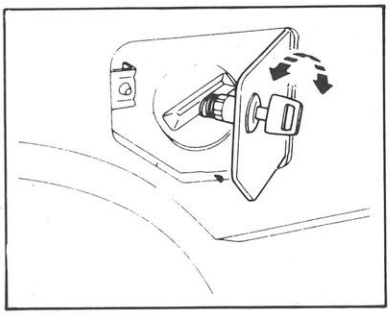
Safer Driving precautions 3-4
Seat adjustment 2-2
Seat belts 2-3
Serial number 7-5
Service 8-1
Service manuals 6-10
Spare wheel 4-4
Spark plugs 7-1
Specifications 7-0
Speedometer 1-1
Starting
  Flat Battery 4-9
  Normal engine 3-2
Steering (power) 6-7
Stop/tail light replacement 6-11

Tachometer 1-2
Temperature gauge 1-1
Timing 7-1
Towing
  Caravan/trailer 3-10
  Disabled vehicle 4-3
Transmission
  Automatic 3-6
  Gear ratios 7-2
  Manual 3-6
Turn signal
  Bulb replacement 6-11
  Operation 1-6
Tyres
  General 6-8
  Inflation pressure 6-7

Vanity mirror 2-5
Vehicle Identification Number 7-6
Vehicle loading 3-10
Vehicle weights 3-10
Ventilation system 1-9
Voltmeter 1-2

Warning lights 1-3
Warranty 5-1
Washing 6-14
Water crossing 3-4
Water separator (diesel) 4-11
Wheel changing 4-5
Wheel hubs 3-8
Wheel replacement 6-8
Windows 2-6
Windscreen
  Wiper/washer control lever 1-5
  Fluid level 6-5
Wiper blades 6-14

The vehicle is equipped with lockable fuel filler door or cap which can be unlocked and unlocked with the ignition key.



After refuelling, check to be sure the fuel filler door (or cap) is locked securely.
Fuel tank capacity is as follows:

53 litres - S.W.B. single cab
- crew cab

75 litres - space cap
- L.W.B. single cab

Overfilling of the fuel tank can affect the evaporative Emission Control System.

To avoid this, the following recommendations are made for both diesel and petrol engines:

1.Fuel tanks should always be filled at the intermediate or fast fill rate. After initial shut-off (or vent blow-back) no further fuel should be added. This retains the tank's ability to accommodate fuel expansion.

2.It is permissible to "trickle fill" fuel tanks where vehicles are to be driven for a distance of at least 50 kilometres shortly after the tank is filled.

Petrol engines

CAUTION: Petrol is extremely flammable and highly explosive under certain conditions. Always stop the engine and do not smoke or allow open flames or sparks near the vehicle when refuelling. If petrol fumes are noticed while driving, the cause should be determined and corrected, without delay.

To reduce the exhaust pollutants in the atmosphere, your vehicle has been designed to operate on a good clean UNLEADED FUEL of at least 91 octane rating (Research Octane Number), as indicated by the label on the fuel cap.

To ensure that the correct fuel is used, your vehicle has been fitted with a fuel filler nozzle restrictor. This allows the thinner, UNLEADED fuel filler nozzle to open the hinged flap, so that fuel may be added to the fuel tank. The leaded fuel filler nozzle is wider and therefore cannot open the flap.

Diesel engines

Use a good quality diesel fuel of at least 47 cetane rating. Note, if the diesel fuel tank is run completely dry the fuel system must be "bled", refer page 4-12.

COPYWIGHT - Reproduction in whole or part is prohibited without written approval from Holden's Motor Company, Australia.

Proudly Printed in Australia by Pemara Press